

SECUENCE LISTING

- <11: Daniel Ochen
 Ilya Chumakov</pre>
- <100. Treatment of CNS Disorders Using D-Amino Acid Oxidase and D-Aspartate Oxidase Antagonists</p>
- <130> 101.US5.REG
- <140> 10/051,681
- <1415 2002-01-16
- <110 = 60/261,883
- <151 2001-01-16
- <150 > 60/305,445
- <151: 2001-07-13
- <150 60/345,211
- <151 > 2001-10-22
- <150 60/333,881
- <151 > 2001-11-19
- <160 > 26
- <170> Patent.pm
- <210> 1
- <211 > 86592
- <212 > DNA
- <213 > Homo sapiens
- <220>
- <221> misc feature
- <222> 38388..40388

<223> 5'regulatory region

- <221> exon
- <220> 40389..40670
- <203> exon Z
- <220>
- <221 > exon
- <222> 42666..42778
- <223> exon A
- a22005
- abble exem
- 2.:22> 43416..43519
- <223> exon B

```
<...! exam
<1... 61,59..61402
and exem ?
42.00 ×
engl: exon
<..... 64050..64711</pre>
karas exem Ulong
c.020 ×
<:::11 - exon</pre>
222.: 64578..64711
a223 - exon U
chals exam
<221.> 6%126..68261
<223> exon V
<.11.0 >
<201 > exon
<222 > 69488..69690
<223> exon 2
< 2.30 >
<221 > exon
<222> 71942..72056
<223> exon 3
<220>
<.221> exon
<222> 73962..74038
<223> exon 4
<220>
<221> exon
 <222> 74701..74766
 <223> exon 5
 < 220 >
 <2.01> exon
 <222> 77478..77532
 <223> exon 6
<200>
 <221> emon
 Pants 78762..78866
 <223> exon 7
 <2200×
 kaalis exen
 <20.5 81507..81589</pre>
 1200s exon 8
 - .:20s
 Edula exon
 -3125 81181..83298
 4.2235 exon 9
```

```
<i.i. + expn</pre>
2.32 - 84979..83977
kum3 - expn 10
a...l expn
#27.1 + 84906 . .85423
a... - exon 11
<2.21 - exon
<2... > 84905..85541
<d23> exon 11long
<220 >
<.h::1 > m:sc feature
<322 > 85541..86592
<222 - 3 regulatory region
<220 >
<DD1> allele
<222 > 6199
<223 > 24-1443-126 : polymorphic base C or T
<220>
<221> allele
<0002 > 44814
<223> 24-1457-52 : polymorphic base A or C
<220>
<221> allele
<222> 72600
<223> 27-93-181 : polymorphic base A or G
<220>
<221> allele
<222> 84046
 <223> 24-1461-256 : polymorphic base A or G
<220>
<!!!!> primer_bind
 <0.22> 6074..6094
 <223> 24-1443.pu
 < 220 >
 <221> primer_bind
 <222> 6559..6579
 .223> 14-1443.rp complement
 <220>
 <2.1> primer_bind
 <2225 44763..44782
 -223> 24-1457 pu
 -2.21> primer_bind
 4222> 45257..45277
```

```
<223 - 24-1457.rp complement
<...1 primer_bind
-.... 12359...72378
∉..: 4 ../ 93.rp
<.i2) / primer_bind</pre>
.2... 7. 763 . . 73780
cass, 17.93.pu complement
<2.71 * primer_bind
<.:2. + 83791..83811
<.:23 - 34-1461.pu
< _ . 11 >
<2.31 > primer bind
<.... × ×4307..84224
 <.323 - .:4-1461.rp complement</pre>
 <2200 ×
 <221 > primer bind
 <222> 6180..6198
 4323 > 04-1443-106.mis
 < 0.20 >
 <221> primer bind
 <220> 6200..6218
 <323> 24-1443-126.mis complement
 <2200>
 <221> primer_bind
 <222> 44795...44813
 <223> 24-1457-52.mis
 <200>
 <221> primer_bind
 <202> 44815..44833
 <233> 24-1457-52.mis complement
 <220>
 <221> primer_bind
 <.li>72581..72599
  .223> 27-93-181.mis
 < 32.0>
 warms primer_bind
  .m.25 72601..72619
  <.2.3 > 27-93-181.mis complement
  < 220%
  shal primer band
  kanz 84027..84045
  .233 - L4-1461-256.mis
  - 220 -
  .221 · primer_bind
```

```
<222 - 84047..84065
... 24 1451-256 mis complement

misc_binding
<. 2.1 = 6187...6211
<7.3 · 24-1443-126.probe
<2.0 .
< mise_binding</pre>
<2.12 . 44802 . . 44826
<2.13. 24-1457-52.probe
audio misc binding
<.i.2 > 72586..72612
.... 27-93-181.probe
<231 - misc binding
<252, 84034..84058
<...3> 24-1461-256.probe
<400> 1
                                                                       60
attattggaa caggccacac ttgcgaggga agtccctgcc tcagaaagat tcagaaaagc
tagacagtea etggaagaac aattacaace geaagaeggt caaacactaa acacegetat
                                                                      180
genteagaac egtacagata atggecaaat agatgggget etgggeattt etgagageac
ctgretggtg geaceceate ctaatggace atgeceteca gtetecaagt ggetetteag
                                                                      300
ageteacate egaacacete etatgetaca ggttetteta geoccaggtt eccaaceace
 ccaaggccac agaggccage cccaacteca tettetacat gtgtcacagg aaaetttete
                                                                      360
 atagtgetat ttattatgta etgegggggt gggggeeatg teataaaaga aatgteetee
                                                                      4.30
 ctitttatt cateteette taacaageat caaagtetea gtegetagea tgtgaettae
 aguagetete atgggaacaa gacaagacca tactgttace gtgacactca eggeeteeet
                                                                      540
                                                                      600
 gactggttte tgetgttgat tetgeeteaa atgeteetea aatgeacett getgeteege
 ctocaccota gagetegeet gaetgeecae ttgecegtta agagtegget taggetteae
                                                                      660
 tectgocaga aaggteetge caggtgetet caacagteac eccetectgt ggteteacaa
                                                                      720
 aaccccagca cetsteggte actetetece tectatetgg ttgtgactgt ettecatget
                                                                      780
 cacttagaag etetetgagg ccaagaactg tgtgtactgt tgettetttg tttacctggg
                                                                      840
 cctagcccat tgcctcatac acaggagaat gcaaataaat catatgctta atgaatgagt
                                                                      900
 cqatgaatga atgatgaata aagggaatct aatctagttt taacaaatcc aggttttgca
                                                                      960
 atgateteae aggeatteat ttatettgtg atgteagggg agtgaeteea ceeteattte
                                                                      1000
 anacquatet tgqqgtcaat getetaaett aettggeete eagttagtgg gaaattacaa
                                                                     1080
 gctacactte aagcetetga etaggacetg ccatgaagta ettgggaate agtggagtat
                                                                     1140
 caetgtgggg tgåggtgtet gaggegagge ceaceaatet ceataettet eeegggeee
                                                                     1200
 ctotgectga gagggtetec etgetteeet tggeagaete tggtttggee ttetgggtte
                                                                     1260
 ggcgttgttg teacctectt caggaageat ttetggetaa ggtgeeceae tetatageag
                                                                     1300
 ctygtgtaaa acctetetaa geaaacagea taaetttetg teeteteaat tgaetetgag
                                                                     1380
 ttotgagaga acageotgga gotggoacgg tgootggoac agagagotga aatggoacac
 cotaguatte coaguagete gacteeccag getetecate aggacage ecteteccae
                                                                      1500
 ctrtgatgga tatgggacca tggaatgett tgtccagcag caactettge etcectcaca
                                                                      1400
 gangggaaca cotagoccat cagacteace titecttact ggaaaagtee actoccagea
                                                                      1600
 agatattete eteggtgtee tggegeeege tgetgtacae caccaccatg taeeggaeee
                                                                      1680
  gatoogocca ggogototoc aggogoactg cotggaacag ggoagacatg ototcactaa
                                                                      1740
  cotgoetttg gaggtggtge etecetecca tetecaatge aagateaaca ettteagtgt
                                                                      1800
  tetacettte estetgggag ttaaaaatga agagaaaatt entggetggg catggtggtt
  daggortgta atdccagcae tittgggagge caaggtagge agateaettg aggtcaggag
  ttogagacea geetggeeaa catggeaaaa eeccatetet taetaaaaat acaaaaatta
                                                                      13:80
  getgggcatg etggegtgeg cetgtaatee cagetactea ggggactgag geacgagaat
                                                                      2040
  stottgaacc cgggaagegg aggttqeagt gagetgagat catgecacca catgecagec
```

	2140
agagogacag agtgagatte tgtetesaac aacaacaaca caacaaaaca caaageggaa	11240
	3100
	2340
	.54.00
	3450
	2520
	2590
	2640
geaggagaat eattigaggi taggagetak agggiggitae acaettgiag beceagetat atatecaraa aattititti aaaataagge agggiggitae acaettgiag beceagetat	2700
atatecaraa aattittitta aaattaaga aastagagagt tigaggetgt aqtqagstaa eeaggagget jaggtigggaa gattgattga aacaagagggt tigaggetgt aqtqagataa	2760
gateatgesa etgeacteca geetgggsaa cagagsaaga cecteatete acaaaaatta	0800
gateatgosa etgeactea georgagead bagatettae cagettgatt etgeettege aaaaaaaaatt tittaaettg acatteteae tgettettae cagettgatt etgeettege	2880
aaalaalaatti tuttaattu gudtaaaa gitgaggcag atcacctgtt gaaccaataa aacgcajaaag gitgatcatc acctgaagat gitgagggag atcacctgt gaacgagtagac agaaagctti aaaaggtoto ttacctacto totaggaaaa aaaacctotg aaaggctgac	3949
agaaagettt aaaaggeete ttaceta.te tetaggaada dadactacace acaggagaat tttgaggget tggaaaaaga ttgagaagtt aaaatttgte tacetacace acaggagaat	3000
tttgaggget tggaaaaaga ttgagaagtt aaaatttgte etgaatactg tgegaegtgg caccacaaaaa acttcaagte tggatttete ttacaccact etgaatactg tgegaegtgg	3000
atgogtgaca tggagettae tgteatgttg ttaaaaagttg etettattte etgaaataca	3170
atgogtgaca tggagettae tgtratgtty teadaugtey genageetag agaaaaatgt tacagtatag gtttccaaat acaaaatgty aaaaaatacag gcaagcetag agaaaaatgt	3180
	3.:40
tatticatts aagccaatgi tartiggeag gitsgasgaaa aaggacagag catcacgitt tggaagtaag gcattigcta agagttaatc attagagaaa aaggacagag catcacgitt	3300
	3360
	342.0
	2480
	3540
	3600
	3660
	3720
	3780
	3840
	3900
	3960
	4030
	4080 4140
	4200
	4260
	4320
	4380
	4.140
	4500
	4560
trgrightige tectrified dadged-	4620
caggagggta gateteatgt taagegttet ttetttttet titttttea atagagacag	4680
ggttttgcca tgttgcccag gctggtctcg aactcctgga ctcaaatgat cctctcacct	4740
ggttttgcca tgttgccag gttggtctcg dattesgs tacccaggec aattaagcat cagcctcca aagtgctggg attataggca tgagccacca aaccaggec aattaagcat	4800
cagettetea adaugutugga attawangan salangaacca tgeceetett atetgteete tettteeaca ataagtaaaa tilaaanaag aaaagaacca tgeceetett atetgteete teeggitata caatteeaca gigtataaca eeetitgitig accetgette etatgaigag	4860
cgatttggag ataagggtte acattaaaga aagccataga cetececage ccetteetee	4920
egatttagag ataagggtte acattaaaga aagtettaga gagetggtte tteacettgee accepteatg teaceaatge aacacaacga caargaceat gagetggtte tteacettgee	4990
	5040
	5100
	5160
	5220
	5.:80
	5340
	5400
	5460
	4.5.20
	5530
ggaggtitet gacacettage gagsagas bashageas attcaagaac ttaaaacatg aacaacaget acatttetaa gagggeagaa taattagcaa attcaagaac	5640

daadaatictid.	get gagt at g	geaceteaaa	ectataatics.	caat getttig.	agagget.gag	5700
		caggagttgg				5760
		acacacacac				58.0
						SHEO
		gaagetaagg				
		aggocactgo				5949
		ataattaaaa				5000
		tegtaataac				6060
octactacag	gtaggtatgt	tacacgcata	actctaaatt	tocatattgt	etgaggeace	6120
agtatttgat	goodattgta	augactagga	aactgagget	tagaagtoga	cetgttaegg	6180
cttagtaagt	tiggagaacya	ggatcagaag	acaggtotgo	ctggcttcaa	aacaaatact	6040
atttocacaa	abcadactgo	ctccttgtac	aggadagtta	ttttetttge	ttaaaacaga	6300
cctaaatatt	atcaacatca	gtatgtgaaa	atactgactg	agocttggtg	tttgctataa	6360
		aacctgagca				64.39
		tracaagaaa				6480
		aggeettete				6540
		tgetgteeae				6600
		tttgagatag				6660
		tcactgagea				67.00
		actagotggo				6790
		teagececea				6840
						6990
		ttttttgcag				6960
		agegagatet				
		ctggccataa				7020
		caggctggag				7080
		egatectece				7140
		gccacgcaag				7200
		ctaagaaaac				7260
ttaaactcag	tttgatecte	accetattae	ttotgtotac	tteetaaaaa	caaactatta	7320
cagaatcaag	acttcctact	acagtgtcta	totcagagtt	ggagocaaag	gcccttcaag	7380
aaatteteea	aatgagtgtt	tttcaaatgc	ttggagaaat	ccateccaag	attaggtata	7440
cagcactcca	gatggttatt	ttcaagtgga	egacatetgg	ctataattca	ttttggtgca	7500
tttgttaaaa	agteaggetg	taacttacag	cctgcaatta	actgataaac	tacagagagg	7560
aaatetttge	atcccagcag	gatgetgetg	accttactcc	tgacgcagac	agacatgaca	7620
		gtggtetget				7680
		tecactatgt				7740
		tgtccagaaa				7800
		tgggggtgct				7860
		gegeetttea				7920
		tagaccggaa				7980
		gtggacaaat				8040
		agtactttte				8100
		aataatgett				8160
		agaatactgg				8220
						8280
		acgcagtttc				8340
		cctctgcctc				
		aggeatgtge				8400
		tgttggccag				8460
		gagtgetgtg				8520
		aacteeetga				8590
teatgetett	getgttgate	totgetteta	actototoge	ttttaacaac	tccattgttt	8640
		gaatacaagg				8700
ttttaagaaa	agtggggagg	ggeegggtgg	ctcaagectg	tastoccage	attttgggag	8750
gecaaggcag	tggateactt	gaggteagga	gttegagace	agtotggoda	acatggtgaa	8820
accotgtoto	tactaaaaat	gcaaaaatta	gecaggegtg	gtggcacatg	cctgtaatcc	8880
		gcacaagaat				8949
		aegeaccact				9:):):1
		gaaagaaaga				9050
		gttgtcctgt				9120
		aatgaatett				9180
_		-		_		

tttataacta	ostataactt	taaaaattac	aattaaaaaa	tatttatttq	ggaggetggg	9.140
gtgganggat	catttgaggg	caggagttcg	agaccagect.	gggeaacqtt	gtgagacccc	9 ((1)
gtcgt.icatc	aabactttt	attttaatt	teactiteat	gacttggcta	teaaqtetqq	946.4
cttttgcaaa	antagecess	100000000000000000000000000000000000000	andert cade	tatgasttac	tatheattet	941.0
tcaaaaatac	asteaagsea	caagadaaga	cataaaatac	accasatta	hr sadaaddd	944
ctttgoggga	Catcaacter	casaaccacg	agattatett	ctactatttt	ccasatottc	9540
tatattaaac	ggrggggag	gaggaggaac	Agaze setteta	Ettgattata	a a a a t a a t a t	9500
tatattaaac	atatattaac	ctttaaaasa	totacted;	estastites	thanamama	90560
aaaacactac	tatataattt	aaaaagaaca	CCCLARCOCC	aacaacccca	or managed ge	9720
teacagttea	aattgtaggc	aactataaaa	atttegetet	tgaacaacca	acgaacatac	97A0
acatgatttg	aaggaaaaat	ccctaagaaa	aageagtett	ctaattaaag	agaacceega	9840
aattaigtai	atcaattoct	gacagaaaga	egaagatgtt	ttetgtaata	Caagaaagca	9900
agateacett	tgeeccagac	atctaatgtt	agtagttaaa	cgttcgaatt	ctggaataaa	
aaact sagsa	aagtotaaag	tatgactetg	ggtgccaaga	aaatgccaca	ggaactagca	9940
tttccaatca	geageteetg	agatcaggaa	gactgttatg	ttctatgata	taaagtccac	10020
aataaaatst	gttagttttt	ctggttaaat	geteatgeta	aaaatagtga	ctgctcaaat	10080
attaagtaag	aagacttagt	tttgccttct	tgttcagtcc	tetgaattee	aggcaattgg	10140
rtttcgatat	cttqtqacac	caatacttga	catctaacag	cattttgtcc	actactgcag	10200
atgeactgee	gagtcatcct	ttccaccctc	tcacaggcat	atatttgtgc	tgcaaggttc	10250
aagtgt.tgag	gaget cagga	ttataaataa	cqaaaqaaac	gagaagcagc	ctttctttgc	10320
tototoacco	tcactcatag	gaagtaaaaa	getetttage	atccatctgg	ccgatctcat	10380
ttcacagget	gcagaatcac	ctaacccttt	ccacctgcaa	agcttgtcac	teteteette	10440
cttagaatct	cacagetgag	tatqttttca	gaactgttct	tagacacaga	tcatttacta	10500
tttattctca	traaaatetg	aaacagctat	gcgagaggtt	ccaaactcat	gaaacctaaa	10560
acaaccatca	atteatedaa	gcaget ggga	aaatcttttc	gagacaacat	caactgcttt	10520
tattatata	attaaaaaaa	aaaaattcat	actgaccaga	aacccaagca	cqctqqaaac	10680
tgttcatgag	taaaaaaaa	ctttacctta	gaaaccatga	gcaaaaattc	cccttggttt	10740
agecaaceac	taatgatgat	2222222000	acaatucaac	agactagget	ggtttcactc	10800
CCCLLatatt	ttttttggaa	aaaaaaaagga	atacatatta	ctacactgat	aagaatcagg	10860
tgtgatcact	tacaaggcca	getgtteete	genttentte	gggccctgga	acactetgee	10920
gactcctgct	etaegeatga	agteaggatg	geattgateg	2222200220	actorgaact	10980
tetgtteece	cacgacaatc	aagtaacagg	Catttactgt	aaaaagcaag	tacatactac	11040
gcagggaagc	ccaagtagca	gegeattate	ccgaagctgt	gagatcaccc	agatagaaga	11100
aaatacagtc	aggagataca	gccagaggaa	accgcacgac	atgactetee	gggrggggg	11160
tggggtggga	ggccgcagag	catggtcagt	cacaggattt	atgaaaacaa	gargragada	11220
gtctctgtga	cccggcttcc	tggcttctct	tetgagetea	ctctgggccc	agagececae	11280
gegeeetetg	cgtggctgac	ctgaatactg	tatetgaega	etgeagette	tgatgeecag	11340
aggcacaggc	tecegattea	tcagaccctc	aaagtgtccc	actggggaag	tccatgaaga	11400
aatccacatt	ggtgatggca	cgctcacttt	accaggtgtc	tggggccagg	aagcccaaac	
ccacaagcca	tccatcccag	ccacccagaa	gtcactcttc	tcacaaaaga	tetgagtgte	11460
ctaaaaggag	tgactaaagt	tacaaaaggt	cagacgcaga	cagacaaaac	ggaaatgtct	11520
tectecaceg	ctgtaagaaa	aatcttgatg	agggataaaa	aaaaaaaag	ccgctgccct	11580
etetaceege	caactggaat	gtttttatct	ccaccacaca	gatctgttct	cggacactga	11640
ttactgccat	tegggaaget	tcataagatt	aaagttt.ctc	caaagcattg	aagacagaca	11700
aaaaacctca	atcaatgctc	ctcaaaaaac	cccaggcccc	caaaatataa	acagccagtg	11760
tcatccagaa	accaagccat	ggcaggaaac	cagtaatcag	ggtggtcata	cgtactaatt	11800
tgagetggaa	acctctqqac	agcagaagca	gtgggttggc	tgaaggaaga	tgcagaagtc	11880
ggtaaaataa	aagaggttcg	tggctgcagt	geteacatet	ctaacgetee	ctacaactgc	11940
cettecgaget	ctggccatct	getecetatg	gagatcagga	aaagccagga	ggetgeegag	12000
tacttccaca	agggctgggg	agccaactcc	tecteagagt	cetaccegaa	aagcaaatgg	12060
ctcttataa	actictiquet	tectetgata	ttitggctga	aaaaggccct	tgteecagea	12120
catectgate	aaagagggcc	attcagcasa	acagetgagg	tteetetaat	cactgcactc	12180
ctaccocyacy	ttctataaac	cagagaaaca	agcaccgggg	tqtqcattcq	acattgtgag	12240
oracegggeee	taaccccaaa	gaaccaaccc	caagcaacaa	gacccccttc	cgattcaaat	12300
ggcasacsac	aaggeeceaag	criticitica	aatcadcatc	catttaccca	acggtgacgg	12360
taaca.cotg	adagacgact	grtagetart	ctacatactc	aaagcacggt	tacatootga	12420
egacgeggge	agoogoogoa	gadatatata	ammmacacc	r ccagatagae	gggaceacat	1.490
aaattottoa	godatyctaa	arget acces	- aggggasasg	, coaggeagag	getgeaaagg	12540
geacacctat	gaggagetee	gggatacgca	. oggregostaa	. 3300330032	agagetatat	10500
tootaaaggt	ragaggrate	alcocadace	. coccayyeac	. adgecageco	agagotgtgt toacocaoga	13660
ttttagegtt	tettteagtg	ayagaaataa	. gcccaggatg	, cyaacaacca	tgacgcagga	12720
gagaat.ggaa	. taagtaccet	aagaaagggg	creggerage	guilacaaga	gggaggaggg	12/20

ageatttaac	taataaatta	togaacaatt	cet raaggaa	geageactiga	gtaggggtt	12790
ctetteeste	aggegaetee	taaraaaaa	ar act acet a	cogattaagt	gaaacacaca	12549
GESTEGGGES	ggeteataag	cgascaageg	ac special and	tagateaage	gadat at at a	12200
ttaccatgat	tetggttttg	caggugagga	aaccocagoo	cgoccaggag	aggagatatta	13.950
tacaagatgg	ggetggacte	acatetatet	geoceacgee	Caccegocca	honorbases	13030
ageagetgtt	ctactcatcc	agaat-gaasa	teagageeat	tatgetgegg	teacatecego	
teatgeetge	ccaggtgcct	aatggcaaag	ccactaaggo	actgagaagt	cagaatigt 3:3	13020
atbacatett	degradatiet.	tidedagtgtg.	tgaatgoato	atgegtggga	aagagagaga	13140
aggaaccatt	caagcaaaca	gaactecagg	aagacgagac	tgtgccgggg	ttottocato	13.00
tigoccaagta	qaaatcagaa	gggcagggga	cocacagost	tatectacce	accaptgoog	13250
teatagttqq	gggacaggac.	adatoctttq	gecettetge	actgcataga	ggetaaggag	13300
thototasad	cacacagoca	egetgaceaa	qaaqteqett	tcaaggtaag	ttteteatea	13320
acaggactat	tatttactda	gratictocca	tatagecasa	gctgtaggag	gtacttaget	13440
accocaccitio	attgaactct	gacagtteta	caddat sasa	tattttctcc	atatgacasa	13:00
casearasara	ccat caacaa	ttccaaaata	gaatcaccag	ggatagcatg	gadaacgdcc	13560
abaataaata	cogorattta	agatttaaga	aaagt aaaaa	ctgggggtga	tgactcattc	13600
atggtgattg	aggagetta	aggeet aaga	tagatagata	atttgaggtc	addadttcda	13680
	ageaseregg	gaggac gaga	tototactaa	aaatacaaaa	attaghcagg	13749
gactageatg	gccascacyg	casascets	etecerceae	tgaggcagag	aatcacttiga	13900
tgtggtggtg	catgeetgta	accedageta	cctaggagge	ctgtagtgag	acctanacas	13860
acccaggagg	cggaggttgc	agrgagecaa	gattgtacta	ctgtactcca	gootgagoga	13900
caaagtgaga	cactgtcttg	ggcaggggcg	gtaggaaca	aaagtaaaaa	thangaceta	13980
ggaattcata	tttctgggtt	ccaatttaca	ttctaccata	tatactctga	CERACCCCCA	14040
gaattaaccc	ctagaattcc	ttacagggtt	ctgttcattc	atccaaacag	gesaseattt	
gcagagcatq	gagcacaggg	taagccaagc	cageceaage	tctgataagg	gcaaagacag	14100
ccatcctctt	taaggaatgg	gtatatgtgc	tggtgatctg	ggtgtctgcc	ctgctgcata	14160
gaaacagcat	ttcttgaaga	acaaaaatag	taggtataga	aacatcacag	tatggaatat	14220
ccaaacaccc	ctgaattcca	actctggtca	tacattgaaa	caacctatca	aactectaaa	14280
acacattcat	gcccaggtcc	agcct cagca	gagtctaatt	cggaaggtct	gtgatgagtc	14340
ctgggcatct	acttttttaa	aaaqttccaq	ggagctgggc	atggtagctc	atgcctgtaa	14400
tracagract	ttaagaagatc	aaagtgggag	aatcagttga	cccctggagt	tcaagattaa	14460
cctaggcaac	gtaacaagat	cccatctcta	caaaaaaata	aaaataaaat	tagctaggct	14520
taataatata	tacctataat	cccaactact	caggaggetg	aggtgggaga	atcacttgag	14580
ectagtasag	tcaaggetac	agtgagctgt	daccacacca	ctgcactcca	acctgggaga	14640
cocceptestas	ctccagaaaa	ttccagagaga	tacttctgat	gcacagccaa	gttttaaaaa	14700
cagaccccgc	asstsscate	ataaccaaac	atagtagete	acgcctgtaa	tectageact	14760
tt	aggragata	gatgacttga	datcadaat	tcaagaccag	cctggaaaac	14820
Ligggaggee	aaggraggrag	gattacttga	ggccaggage	tgagcgtggt	gacgcacact	14880
atggtgaaac	ecagicitia	CLadadataC	addaactage	cttataccct	gaegeaeaea	14940
tgtagtecca	gerrerragg	aagergagge	acgagaacca	cttgtaccct	tagataagaa	15000
gctgcactga	gtggagattg	tgateetgga	greeceactg	cactecagee	tggatgagag	15060
tgagactgtc	tcaaaaacaa	acacacaaac	aaacaacatc	agaagacaca	gagaaaacag	15120
tcttctccat	gggcttcata	aagatacctc	teacataggt	acacgtcgat	gitteetget	15120
ggtaaaaggt	aacaccaaca	aaaaggcatg	gtgctctcag	aaggtgggtg	atgtgattag	15240
gt.gcaat.aaa	gggaggtcat	getagggtca	aaaacaaaat	aatactetet	ttggaagcag	
taaaacagat	gctagtcttc	tactacacac	tticagagac	etgaatgtte	ttctggccct	15300
ctaagggaga	cgctgcatca	tgacaatacg	aaatgatgac	agtgaaagca	aaaacagatc	15360
agacctgtgc	tgtgtgaaac	agacatgggg	tetegetatg	ttgcccaggc	tggtctccaa	15420
chectgaget	caagcgattg	ttccgccttg	geeteccaaa	gtgctggggt	gacagetgtg	15480
agccaccgag	accaacctca	gatcagacct	ttgacaaact	ctgctgtgga	caaagcattc	15540
tggtgaatgt	caactcatct	gatetteaca	. aaaccgtgtg	gaagaccaga	. caggcattat	15600
tacactaatt	tatgcctaag	gaaacaggga	gttaaatagt	acaaatttag	gatttetgat	15660
getgtatete	gaaaaaaaag	tagagaatat	gageetgaag	aagaggccct	gtaaagggtc	15770
ccagattgat	gggacagget	gagacaaacg	gaateacttt	tecetggata	gaactaaccc	15780
traatggtac	cccactctgc	atggtgatta	ctgaggggac	tgtcaattgt	ccagogaact	15940
tratrontaat	tictaggagaa	aaaggaacta	atdtaatdct	gtcagcatac	aaagatgggt	15900
decagedade	attocasasa	agaageteta	ttaattoodt	ttegateaac	aagtatttgc	15960
t anatatatata	- tatatataaaa	trantmeter	dacetasas	trtagaagtg	aaacagaccc	16020
cgagegeeta	- cogegoeegg	accactoose	anotographoto	r dagtgacact	ggagggccag	16080
ggttttdacc	catgooataset	torrat at ago	r acsacaaatt	ccacdatada	agqagqtqqa	1/140
geaggeaeag	gaungtadet	cogacacaaq	, gorgodaget	ccatagaaga	. aatgaageet	16200
aggegeagat	geacgracac	acayyyyttt	. agggaggsct	. coologgaage	aatgaageet aagatgatta	16260
gegaggeeet	gaaggatcag	Laaacagaga	ggcaraaggg	, gcaggagag	aagatgatta	

tgctacatgt a	acttattqt :	gaa recagga	ggatttggcc	teteteataa	aaggcccccc	163.0
tgtgggttca t	aaacet caa	tttacaaatt	gtgctttata	tateagttee	ttataaqttt	16380
ggttagegta a	attaatitic	ttagaacttg	atcatoccto	agtgaactca	casatteasq	1644.
tttcagaatg t	acceggeees	202210222	cheatmente	taattaaaa:	aticgcaptot	16500
caacatcaca a	attataaaa	agaziraat ic	ctootatatatt	atcaacatat	attottttaa	16500
atatgtaaat a	attestenge	taattataa	asatttatee.	charatette	ccacttaatt	156.29
tttadaatdd d	atagototo	englesacaga etgenacaga	gageeegee	dealected:	aaaatootgo	15680
tttacaatee e	accoecoug	a cyanac a ac	at ant anoat	gearcaegga	tichconort at	15740
ctctacaaaa a	atacaaaaa	ttagetgggt	geggege	geaccegeag	oatasaacaa	15800
ttgggagget g	aagtgggag	aatbactt.ga	gooogggagg	cagaggeege	agegagesaa	16869
gattgtaccg c	tgcactcca	geetiggaga	cadagggaga	occupaciona.	gggagggggg	1690
ceteccaaaa g	aaaagaaaa	gaaagaaaag	aaaatgaasc	dabbaagast	gggagaagac	16980
aaatgacttg t	ctgtggtca	tetggetaat	aagaggtaga	atggggctga	aaaagttegg	17040
tgetetteet g	;aagaateca	taggteagaa	ageageacea	tetgaeetge	ageaatagea	
gcaacgtgga a	agetaatea	actgacctca	aaaccactct	pagtgagget	ctggatggat	17100
tcagaacccc a	ggeetagea	aagtgaagtt	gataaagatg	taaaggagat	egaaaattea	17160
ccatttggag a	gagattagc	taaagactgc	aggtcggatg	gaaaattett	tecatggtte	17220
teccacaggt t	cttccctca	tttggaactc	gtgtttaaaa	gtcacaaaga	ccctgagttg	17230
ggecaaggte t	cgttcttct	teactgtggg	ccttgcagtg	caacatggca	gggcctcgtt	17340
ccaaatgtca c	etetteagag	cctaagaaaa	caagtaactt	tagggacaca	cctgtcaacc	17400
ggageteeca a	attqtaccc	ccctaaacac	ataatgctga	gcatagaaaa	attccagctc	17460
tgcagagcgt t	atacttagg	gaaaggggtc	acagacaagg	aatgctggca	gggctcatta	17520
caaatatctt t	getgetgga	acatgtattg	tttggctaga	aggcgtaggc	ttctctcaga	17580
qaqaaqqaat q	tccaaaaqt	atttcagaca	gtaagagaca	ttctctgage	cagctacaca	17540
geteteette a	aaccaacqq	gtageggeaa	gcagctgaac	tgaccagcga	gctcgcaaaa	17700
gcaagetttt t	tttttttt	ctccctaaat	aagacagcaa	gtgatgtgtc	ttggcttggt	17760
ttagcaaatt t	taagatagt	tecetgatga	ccccaaqaqc	cctcaggccc	catggaagct	17820
ggagetaatg o	atcttcctc	caagcatcat	ctqctctacc	aggatctaag	ccccttcacg	17880
agggcagaag g	rtataaaggc	tacactatac	gggaaatgct	atggcagcaa	agacagccaa	17940
acacgccaga a	ataacagge	acatgaagga	aatqtttctq	agacagetea	aaaattccga	18900
gaagagatta t	cccaactat	cccaggttct	cagecetate	tatogtatoc	agececatae	18060
cacagtcatt t	atcaccgag	tectaacttt	gtcagaggcc	cctcctttca	ggtctctcag	18120
gcaccaccca	attetaacce	tectcacccc	catgagecag	gcgacatcca	agcagececa	18180
cggtgcaccc	ractetatae	tocattetet	gaatgtccct	gaaggccagg	gctgttgtat	18240
tototaccoa o	stetetetet	agtatoggag	ccactggcca	gatgtgttga	ctgaacactt	18300
aagatgcagt a	aactatgaca	aagaaactgg	gtttgtcatt	ttatttcatt	ttagttaatt	18360
taaatttaag t	tttaattagc	tacatgagge	tatcagctgt	ggtataggac	agcagagete	18420
cggaagcttt 1	taacctaata	agaagaatca	ggagaaggg	ctccctqqcc	tetegeecae	18480
tetgeacage (cactaaccat	tactctcata	acattette	ccagccccag	aacttttagc	18540
catgtgacat	catctattca	ttagagtcca	aacttcttgt	getaactete	tatagattac	18600
cacaattagc	cattetatege	cottaaccta	aatttcattc	atctgctatg	tectgacett	18660
aggggettag	actiguatge	geeddecta	tttcagaata	aaaaaccatt	cttgtattac	18720
ctctcgcact	attececeta	ttetecatee	ttcacattct	ctgttctatc	cccagctata	18780
geactgteec	acteceeeg	actataatta	teageteata	atatectice	teccatetge	18840
ctcccgacgt	cataaageee	ttecagtett	tatgeettet	ccaggaaget	ttctcttata	18900
goodtogotg	targetigee	ctcctgcgct	tcaacatctt	ctaggacgtc	ctcttactqt	18960
gcaggtgagg	agagetacag	ttaagggtta	actcacttcc	traaggtrac	atacagtcgg	19020
tcctctgtat	acactgagge	ctaagggcta	agttactege	actacacaca	gaaaatacag	19080
tatttgaggg	eegegggtte	etcatcagtg	garreaacta	gagataatta	aggatogato	19140
gattttgaggg	atgetgaaet	cultgaacta	graggererg	atagagttag	atactgaagg	19200
gattttgtta	tecteggeaa	aggeggggg	congaaacca	accecettgg	casatcatat	192:60
aaagaccacc	cttagtgata	ggaacctagg	adcocaagtt	thactacaca	t at at t t t a a	19320
tecctgacce	acttatttac	Laactagtgg	Lydadyccatc	toscugucag	tatataatta	19390
cttcacaatg	ggatgtgagg	gecaggatge	acauguette	casacccccc	tetgtgettg	19440
acatacagta	gattgaaagt	aagtgctggt	agatacactg	gecaagetgt	getettetet	19500
gaagteagta	ttccaggagt	aactcaccct	ggtcatctct	gugeeesggg	cacactgggc	19560
actopodaca	cacaggtt-ga	acctggcala	taagactcac	ageateatge	cacgtgcgag	19620
ttaaagccac	ctggaggtca	ggtcaggtct	teetgacaac	tgagtgette	agatagogoa	195.80
acageageta	agttccccac	atcaccttga	gtgtetggag	agetaggeet	atgacttctc	19740
tgtot sagga	teceteteag	tgcccagaaa	acagtggaca	tcaataaatg	taacaccaat	19800
aacatetteg	ttgagcgcta	tgetaageac	atcaggtatg	tcaactcatt	tattecccag	15000

tgtccatctc tcagtgtttt	atheatacgg	qaactgaggc	tcaattagcc	gagogtggtg	13471
tegtgetect gtaatcccag	ctattqqqaq.	gcacaagaat	cactogaacc	caggagatgg	19950
aggttgcagt gag;cgagat	tataccacag	dactigeaaca	gagtaagast	cegtettaaa	1220
азаасаазаа аасздаааас	аачасаааса	aacactgagg	ctcagggagg	ttaaqtcacc	20040
t-geneaagtt cat-jagacca	agrandedad.	hadcaddaad	gggaaggeag	qaqtqtaact	2001000
organacete tgorettagg	cactagettt	cagotgaact	gataceteta	quaaacaqtc	1,0160
traasaasgt costtetre	tarasacaat	tranacetaa	aaaccat rt d	adagagaagg	20220
geagggeaag ettetgagtt	earragaaaa	tatagaataa	caadctdadii	ratetattaa	20380
gcagggeaag cttotgagtt	999999999	egegggaeee	caagacaaaa	agagagtgct	20340
caagcagggt gcaaagggca	totgtgtagg	gagagagacag	taatattat	astraatata	20400
ranaggeaag gaatgaaata	tegaacatua	atgutastas	tataactata	treatateat	20160
tttatgatat atagcatata	tacatactac	actaattaat	cataactata	ottataacta	20520
taattataac tatattaata	taitcaatta	taactatatt	aatataateg	accacaacca traatataat	20580
tattaatata atogattata	actattaa	tataategat	tataactata	ccastataac	20640
cgattatatt aatattaata	taatogatta	tattaatatt	aatataateg	actacactaa	20700
tattaatata atcaatatta	acaaatatat	actatataat	ataaataata	cetaagttta	
tataatatgo ataatgttaa	tatttattaa	tatttcaggg	acaatgggag	tratgaatat	20760
ggagagacaa aactagaatg	aaccccaagg	tgetgeatea	gaattgaagg	taccagtetg	20820
aactcatagt tttcaaccta	ttgaaataaa	tatagatgca	cgtgtgtgtg	tatgcacgta	50880
caracaaarg ff.ccctaatt	ctdcccattq	agaggcctgt	ggttagcaac	accccaacag	20940
castaagcag acctagettg	getectaaat	ttcattttcc	actaaaagga	accagagece	21000
cttqqataaa qqactqattc	cacaggtggg	tagggagcat	etgttgecag	aaagcaagaa	21060
agractiaaa gaatgatgtg	gacatgtcaa	agggacacag	aagccagcct	ggatgagatc	31120
ccactggccc taactgtcca	caaggacaat	ttgagcaagg	atgtcaacaa	tttaagagca	31180
gattataaac cactgaataa	aacagaaaaa	tacaaaqaat	tgaaacggac	attgatggca	21240
gacaggatat taacataatt	ttaaagtatc	totocaaqqa	atgettetga	atgatgaagg	21300
qqaaaagaat aactgtacag	toggaaaagcc	togtagaacc	caccttagtg	accaaaqtga	21360
atgtcaccat agtgggacaa	aaggaaat ca	agtoccacct	tatoggattc	aacqaqqacq	21420
cagcatccct tgggtgatgt	tocadocaaa	tacacgtgcc	cogtogaate	acacaaqaac	21480
atcagacaca ctcacactga	gggagagt et	gcaaactgac	agtactgggc	acaaacatqt	21540
ccaggicatg gicgaccgca	at aget as ta	getategae	caccattttd	ggaggetgag	21600
gtgggcggat cacttgaggt	graggertarg	agaggagggt	aaccaacata	gcaacaccct	21660
gtgggcggat cacttgaggt	caggggtteg	agactageee	agcetacaca	taatcccagc	21720
attototact aaaaatacaa	adattageeg	taccarage	ageaegeeeg	tacaacaaac	21780
tacttggggc gctaaggcac	aagaattgct	rgaacccggg	aggeggagge	tcasasasta	21840
tgagatatca ccgctgcact	ccagcttggg	egacagageg	ageteccaac	ccttccacac	21900
aaaaaataaa ataaaatcca	ggccacaaga	grcaaagaaa	gactgaggaa	ttggatgttt	21960
tgcaggagag ccaagagaca	ggataactag	atgcaatggg	cagteetgaa	eggatette	22020
tgttatgaag gacaacgctg	ggacatatgg	tgactettga	atggggttag	aggactagac	22080
ggtgggaatg catcagagtc	agtgtcccgc	gtggatggct	gtgttgcggt	cccgcgggag	22140
aatgecetgg tetgtattee	aagggtaatg	gagtagcagg	ttgacaaatt	actttcaaat	22200
ggttcaaaaa agaaagttct	tttcactgta	cttgcaattc	ttatgtaagc	tggaaattat	22260
ctcaaaatta acgagaattt	tttatcgacg	tagtatttta	catatttatg	gaaaacatgt	22320
anghattigt tacatgoata	aactgtgtaa	t.gaccaagt.c	agagtatetg	gggtatccat	
gacettgagt attaatcatt	tgtatgtgtt	gggagcatta	caagttttcg	agttaccaat	22390
ninttittit ticcittgag	acagggtett	actitgtinge	ccaggctgga	gtgcagtggg	22440
andancandd sthacdcadd	adagecticca	cctcccaggc	teaagegate	cttccacctc	22500
naccacccaa qtaqctqqqa	ctacaggtgt	gtgetgecac	ceecagetaa	ttttttaatt	22560
rifitada dadagggtet	cactatgetq	ccagggctgg	tactgaactc	ctaggeteaa	02620
dadatected caccicqqtc	toocaaagtg	ctgggatcat	aggcatgagc	caccataccc	22680
agecaaattt tttaaagtta	ttttttaaat	ctccacttaa	ttcgattttg	gtaaaacacg	22740
accretaatt tttetttate	: ggtaggtaat	. aaaagettea	.gatgatttta	ctgatcactg	22800
granggggat atttcatgac	tttqcccttt	. eatetettge	: atagttttac	ecteaccaag	22860
casgacette cetgectes	cactattrac	estetteste	ttttccagaa	cagaagtigge	32920
congetteegt geocagagea	gaagagaanc	atgaagaget	etgetetece	aggtetteet	22980
ggtotgtgtg tytocaggtt	tidadadact	progentace	aggetetgga	ccacqtaaqa	23040
totaatttta goattttoot	actorda zeo	cacaatatt	. ggaacagcag	gggetgaeet	3/100
geoogtgoag geotectatt	. graceggagae	. cacaaaacca	ggataccoca	geeetgeagg	23160
atgtgastea geatectgte	, gogaagggo	. agagaagaaa	agetetagea	ccaadtocto	3000
etgetgaset cacetettaa	agrgctgt	- addaggedage	attaataaa	taggcatgca	23280
etgetgadet eadelettaa	gaccacaaat	ttatecates	attatocto	actteettat	23340
geateagete tecetgitaa	, gacaacttgc	. craccator	, accargerge	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

qaacaccaca	ggtatctatc	aggaagagtt	ctteegagga	actgatctgc	tggtattttc	23400
aggacaccaa	gaatcaagag	attggtcttg	tttctctctt	tgctttgact	accaggaaac	1:3400
r caaagticag	atictionggee	aaatteteet	aaccatacca	atgctatgtc	atqtattaca	15
totacaaace	treceettae	treatettat	titettetae	tttcttcgtg	teecqatttt	23580
				aaggtgtttc		23640
tagaggggan	tactotagas	acaacacaca	ttacccctga	gggataagga	ctctttttqa	23700
05,000,000,000	aatoootooo	atttqqqqaaa	daacccat at	ttaggcacta	aatacacato	23760
arantaratar	222222222	taggtaggta	aaaaccacct	ccattaccat	attotttcac	238.00
ggolgaacgg	thtaaattaa	anataataaa	at agazzat a	gteaggagte	accadageet	23880
aagaggeese	tt000000000	acceptage	gtggggccg	agocaacagg	teaataacct	23949
				caacagacac		24000
tgaotocaga	cctaaagage	cacteceaga	atractitions	caacagacac	agogogodo	.4060
gggugggddt	ggccactggg	gaagugacaa	gegateseta	gatgetgeag	congectegge	24120
totttooaga	coacaccgaa	ggoodcattet	agatagaaaa	etgatgggge	daatdactto	24180
ggaaacacgo	ecegaggaec	cccggcaage	gegegeeagg	cetggaecag	gastgactec	24240
tgtgggcaca	gggagagacc	aggeatttee	taacacagga	cettgaacag	ossectorega	14300
aacaaagtot	ttotaaaaat	agetteaaaa	grasecatte	aagaaaagaa	agaaaaaaa	
aactgtaaaa	gtaaaggcac	tcaagaalga	tatttcccag	atasaageet	ggcacaggct	34360
tcagaggaac	ttgcaggaaa	acaggtcaag	getgggtttt	tootottagg	tgtcacttgg	24420
ttaacattgg	tetttggagg	ggaacaagtg	cggcaggaag	ggetggeact	gaaaatgatg	24490
gecaet.gggt	ataggccagg	gecagacact	gtacacagaa	caagactete	tggaggcere	1.4540
aggagggccc	tgagaggagg	aaggcaggtg	gtgggcccag	ggtcagacat	geaagtgage	24600
				gaccacaege		24660
				gcaattctgc		24720
				gcatecegae		24780
cccacaaagc	aggageeeee	gcaccctcca	gcccaatcgc	teagtteget	ttgaaaatgg	14840
				cccagcactt		24900
				ctggccaaca		24960
				ggtacaagcc		25020
				ggaggcagag		25080
gccgagatcg	tgccactgca	ctctagcctg	ggtgacggag	caagactgtc	tcaaaaaaaa	25140
gaaaaaaaaa	aagaaaatgg	ctcctctgga	ttttgattaa	tcctattttg	attaatcctg	25200
gtttctcatt	ttcagccttc	cttgaagcag	catgacccat	ctggatgtcc	tcctcatctc	25260
aggaattttc	taataagctg	tctaaatcca	gagatecgae	cacagaacaa	tgaatgccaa	25320
agatgagttc	taaagatgcg	agtactttct	ttctaaacgg	acgctgcttt	gtgtatggct	25380
ctgctcctgg	gggcagacgc	ggcaggctaa	gecetgegga	ggaggaggtg	agtcccagca	25440
gagggtcact	tcctctcagt	ageceggetg	gttttctcca	ctgcagggtc	agaccatagc	25500
cctgacccag	ctagaccccc	ataagcgcat	gaccttgctc	teacegtggg	aataaaactc	25560
gtgatagtca	gttacaaata	cacagcaaat	gatgagcagc	acaatataaa	cacagateta	25620
gattggtggg	tctgaggact	cattcttaaa	tttggaggcc	atcacctaat	cttgtctttt	25680
cactttacat	agcaggagac	agggacccag	agaagtgaag	aggegttgee	ttaggttgca	25740
cagcagatga	cgcctctcaa	gatggaccct	aggttgtctg	actccgtctc	acagetttge	05800
cccatttatc	atgaagatga	acgctggtaa	cactgctacc	tacgagetga	gettgeaege	25860
acattcctgg	tgtgtacatg	catgcgtgca	cgctcacgca	atgtgctaag	tgcacaggaa	25920
ggagaccaga	gecetgagge	gttcttttga	agtctaagta	ctggtgtttc	gaaagtttaa	25980
tgaaacctac	tagactctga	gcaaaattcg	ttttacgtta	accttaatga	aaagtttaat	26040
taagttetga	cagaattaac	tetteaegte	tetgteetea	tttgtcccca	ttctagaatg	26100
agttttctaa	ttaaaaaaaa	tatatagggc	cgggtgcagt	ggeteaegee	tgtaatccca	26160
geactitggg	aggeegagge	gagtggatca	cctgaggtca	ggagttcgag	accaacctgg	26220
ccaacatggt	gaaaccccgt	ctctactasa	aatacgaaaa	attagctagg	ggtggtggcg	26280
				gaatcactgg		26340
geagaggttg	cagtgageca	agategtgee	actgcactcc	agcctggtga	cagagcaagt	26400
				tgtgtgtata		16460
tagetaggea	cagtggctca	tgeetggaat	cccagcactt	tgggaggeeg	atgtgggcag	26520
atcacttgag	tccaggagtt	caagatcage	ctgggcaaca	cagtgagacc	ctgtctctac	36590
caaaaataca	aggtggtgtq	cacctgtggt	cccagctact	tgggaggetg	aggtgggagg	.:6640
accaattgag	cccaggaggt	eggggetgea	gtgagctgta	atcatgccac	tgtactccag	.:6700
tetgggcaac	agagcaagac	tetgteteaa	aaagaagaaa	agagagagag	agggaaaaaa	36760
aattgaagge	aaattctgat	tttcaaatca	aacgttccaa	caaactgcag	aaataaaacc	25820
cqaqttaaac	caaaaggaac	agccaaacag	cacaat gacc	ccaatgttta	aatatgcccc	16880
			_			

aatutttaaa	agtgggagtc	aat gggagge	cactacctac	aaggccacag	gggttagggc	26940
addact cadd	teectgaate.	acadcadcit	geatteaaac	cctagctcag	geeteecace	1,7000
addet catego	aacroottte	ctasaatoso	gagagtocct	actitgcagg	cttqtqacaa	7)
caadatdada	draadtocaa	aagtit ccaag	cecagageet	geageetgea	gaagetggee	27120
teattagear	connetation	tecagactas	agcacatgaa	gaggatacqt	gacaatccct	. 7180
aattta aata	coggacgara	antinannan	acctgoccaa	acacataata	aborcoctaa	27.240
gesetaagea	cago reaggy	agtogaoggg	etggttette	tratagacto	cattetatet	. 7300
Jggcccac.a	ggaagaacgg	ategranage	ggaaaagaca	atacttadat	tttaaaataa	77:50
occagingogg	ettergacyc	acayyyayya	ggagtatgag	agteteaget	ctaccattra	27420
agageasagg	ttttggagee	aacyagatac	ggagcacgag	rectteteet	ccacagaata	27420
ctactaaata	aaaacaqqcc	accgaccocc	ctggggttta aaagattaab	tacaataata	cagggaacg	27540
ggaattcaaa	tgtccttaca	gggttttdab	adagattaat	cyanacancy	ttattttt	27600
aatcacagag	tggagtatgg	gtgeteeett	tteteteete	tettottto	tatattatat	27660
geetgggeac	ttaccaacac	acgattattg	egettgttta	tettattat	egecetycec	277.:0
cctcaacaga	atgicagett	ccagagcagg	aatttttatt	enginegong	Coacaccccc	27780
agecectaaa	acagggettg	gracacagta	ggageteaaa	adatattigt	cyaacyaaca	37840
geteacaage	agacagatga	ggacagaggg	gtettgagac	tgatctaaca	geacegatat	7990
tactaaactg	caacggaggc	aacggtggga	agaatttete	tgtactttgt	tteetgaaag	
tocaagacca	cttttagttg	ctcaacagga	aacaatactc	aacttacaag	acctetaggg	27960
cctatccagg	gcasactggg	cactgtgagg	caggaggtca	ggeagecetg	tecetagggt	28020
ggotcacggt	ctagtgggca	gggccagett	cttcatatgt	geteagaggg	geeeegtget	28080
tggtttaata	ctctgttggt	gccatcttga	aattettaat	aatgtttgtt	gttgttgttt	28140
gtttgttggt	ttgagacaga	gtctcactct	gtcgcccagg	gtggaatgca	gtggtgtgat	38200
ctcagctcac	tgtaacctcc	acctcccggg	ttccagtgat	tetectgeet	cagcetecca	18060
agtagctggg	attacaggca	cgcgccacca	tactcggcta	atttttgtat	ttttagcaga	28320
gacagggttt	caccatgttg	cccaggatgg	teteaaaete	ctgacctcaa	gtgatccgcc	28380
egeeteggee	tcccaaagtg	ctaggattac	aggegtgage	cactgageee	agcctcttaa	28440
taatgtttt	aaaaggggct	ctcccatgtt	cattltgcac	tgggcttcac	aaattacgca	28500
gccagt cctg	cattacagga	aatatttctg	tacctaagta	catatactac	aaagcaagta	18560
ccaaacacca	aggaaacact	aaggagagaa	aaacgcctgt	gagaagaaaa	aggaagacac	28620
gaatcattcc	caacagaagc	tgttaccatg	aaggaagtac	gggcaggggc	atttgttgaa	28680
tgt.ctactat	gggagaaggg	gttegcatea	tgagcacatt	taattctgac	aaccacccta	38740
caagctgtgt	actatactgg	ccatttgaaa	ctaaggcctg	cccgagatca	tataatagcc	28800
taggaggtga	caaaqqacaq	acacaggage	caaacccatg	cccatccctc	cctaagtcca	28860
aaatcataga	aaaaaaaaa	taagaatcaa	catgggcggt	tatttttaag	gccagcatgt	28920
tcaaggtggg	ggcaaatcca	agagacacta	agcetcagag	catgaacaag	catgtgggtg	28980
ctgagtggag	gggaccagtg	tttaccaggg	tgatgtcaga	ctctgcaagg	ctcgctcccc	29040
gtgtttctgg	tctcttccca	tgagcaccag	gcacccctta	ccatccccaa	actaggcaca	29100
tctqtaacqc	tgaatggaag	cctacttgtt	tacatgtgtt	ctatgttaga	ctgggggcat	29160
ccctagaaca	cacacagatt	qactggtggg	cagaattctg	ctaggtgcat	gcacccgagt	29220
gageetttet	ctttgaatgt	gggagggacc	agagaacaag	atgggagagc	tgttccctta	29280
attaggetgt	gctgcacatt	aaaqqcqgta	agacagtcat	tccagtgata	acaatctgtc	29340
ataaqaccct	acagaagcag	actctcctgt	tggccttgaa	gaagcaagca	ccacgaattc	29400
t.ccacaget.q	caaqaaaatg	aattcaggcc	aggegtggtg	geteacgeet	gtaatcccag	29460
cactttqqqa	ggctgaggcg	ggtggatcac	ctgaagtcag	gagtttgaga	ccagcctgac	29520
caatacggtg	aaaccccatc	tctactaaaa	atacaaaaat	ttgcagggta	cacctacagt	29580
cccadetact	cgagaggetg	agacaggaca	aaaatttgca	gggtacacct	acagtcccag	29640
ctactoggga	ggetgagaea	qqacaaaaat	ttgcagggta	cacctacagt	cecagetact	29700
cagaagacta	agacaggaga	attacttgaa	cccaggagge	agaggetgea	gtgagccgag	29760
aticgcaccac	tgcactccag	cctgggcaac	agagcagaaa	aaaaaaaaa	aaagtaaaaa	29820
aaaaaagaaa	atgaattcag	ccaaqaacca	cqtqaqctta	aaaqaggacc	ctggggttca	29980
gacaagacet	cadeceedde	caqcaaqcct	tgtgagttcc	cgaacagaga	acccagctat	29040
accututora	gattectgas	ccatggaage	tgtgagataa	taaacatqq	ctggglgcgg	30000
tagetageea	ggcatgatga	cteatgeetg	taateccage	actttgggag	gccaaggcgg	30060
ggagatgagg	tgagttcagg	tgetegagae	caacetgeee	gacatgatga	aaccctgtct	30100
ctactaaaaa	tacaaaatta	accaddtata	gtggtatgcg	ectqtaatee	cagatacttg	30180
adaddataad	gcaggagaat	cacttgaace	cooracono	aggttggagg	gagetgagat	3 0 2:4 0
					tttaaacaaa	30200
atapacatat	attotttaan	: tgttaagtta	gtggtaactt	gtcatgcagc	aggcaatgac	30360
tgatacagta	acctatorac	acatecatet	ccagtacoga	cacagaactt	ggatgcacgg	30420
-gaca-agea				5		

ggtgcatgae acctettgg		Eggacagaca	encaacaaa	acaataaaqc	30480
ggtgcatgae acctettgg ccaggetaag atggaetge	: agganttaan	oggacagaca oggacagaca	rantor orac	addtdcaaaa	30540
gtagggtgt teaatgaag	. aagggcaggg	aggaaccesa agtatasaaa	araabdacat	gedaaccccc	300500
gtaggggtgt tcaatgaag atccactctg acactgtag	a gyggaagcac	220023333	cacantt caa	aaggetgtag	306611
ggagaatggg gtooctggg	1 63934333353	tagge idaac	EEBEEDOESE	gagtgeggag	307.00
agaaaggcag aggagtcag	g ga serebaag	tttaccacto	anachanata	aaacaqaaqa	30750
agaaaggeag aggagteag gacaaaatee tgeageteg	g gargueo acag	acctttasta	anachaacha	ticacaaatiga	30849
gacaasatco tgcagotog gcaaattata ataattota	- terggoscaa	accecegeta	act togaaut	getggattaa	30900
gcaaattata ataattota aaaaaaaaaa ottsaotoo	a tgaccargue	ctcgcaareg	tattatetee	ccagtotect	30960
acctagocca caactactt	- bababasada	cogggggaad	cadet coold	datagcaagg	310.10
gagecaggag etgetgeca	a egreenaege	tastascas	troccacast	ctgaacggca	31090
gagecaggag etgetgeea	g cagggocate	agaggaggat	acadat acad	aagggaggg	31140
cagettecaa agagggact	a egagegaeca	geageagee	termeatant	gggtgtgaga	31200
agagcgaggg aaatggatc	t atactgorou	getteagea	tactototoa	offacaacac	31260
tgatcagtte ttgagacac	t torcagaagg	cetteagaaa	a stated coor	ggtaaaggag	31310
tgetteetee aagtetgta	t tottatttoc	acctratagg	at at cadded	tagacccage	31380
gaaggetget teaagteaa	a gggcatecat	gatagarace	actaacactd	cacaticagica	31440
acctgcagga gtcggccc	t ttaattetee	tregregies	areacatastt	ctagggaagg	31500
atactttgtg aagaccgag	c acagcaacca	ageceaetge	ggattegate	cadeddeaca	31560
aactitittt tittigag	a eagggtetty	-ett anagta	atterectae	ctcaacctac	31620
atctcagete actgcagte	t egaceteeig	ggttcaagtg	ctaatttttc	tattttttt	31680
ttgagtaget gggaetaes	ig gegtgegeea	ccargectag	and accord	ctcaaagcaa	31740
geggagatgg ggtettge	a tgttgtgtag	gerggeerea	atc.acggeg	aggactagee	31800
tecacteace ttggcttcc	c anagrantgg	gattacagge	greatcacto	tcatccctqt	31860
tagacaagga acatcacac	a actactecae	aacccugaaa	ggccacageg	taaaggaact	31920
tttataggtg gaacaatt	ja gacccacaga	gctgtaagaa	catacatagg	aaccccactq	31980
cagecaceag cacaggage	c agatgecaaa	cttaggictg	atttactoca	gggt caaagg	32040
cetteeetet acasetgg	t gitteteeta	catgtctgga	tttaaaaaaa	agteterate	32100
ttcatccatt tasactgt	c acttitatea	acttacttac	ctgagacug	ccaaattcaa	32160
tgttgcccag gctggagt	je agtgaegeaa	actoggotta	e agradadad	cagggggggg	32220
acasttetee tgeeteag	ec tocogagtag	ctgggattac	aggagogoac	ctdatataa	32280
getgattett gtattett	ag tagaaagggg	getteaddat	greggetagg	attagagatg	32340
acteoggage tocagtga	to egiteeegeet	tiggeetteea	aagegeeggg	accagagacg	32400
					32460
gccgtcacta agggattt	ga gagcagttag	ggatacaaca	agggcacaca	ctttctctda	32500
gtaaggeggg tgtggeac	ct gtcacagata	gggatgccag	gggt reces	gaggactaca	32580
agagagggaa atcacaaa	ta tetggggeag	gegeactitu	ageoggeeae	gaggactaca	32640
gccaggtgaa aaggaact	gg cetagggaac	gtgtgtgacg	ggggagcagg	caccaataac	32700
aatggactgg aaaaggca	ca tgcgagaggg	gagggrggaa	aggecaecae	accagggggt.	33760
getggagete agaaaaga	ct ccgaggacca	gaaggaagaa	tatascange	cadaadadat	32820
getggagete agaaaaga gatatgeeaa ggtagaga	gg atgggtetga	ggtgttcctt	- cgcgacgggc	tagatgagaa	32880
gatatgecaa ggtagaga gtgaggacet gaagagge	ge caccagggaa	1 Cttgagaaaa	agaaggcagg	tgactttttc	32940
gaccegatec atgtgacc	ct gcaatttatt	ggatarggat	addddagaga	agagagaga	33000
gatgacccaa aagatgaa	ac tattaattaa	ggeragacge	taggggagaa	ataataacaa	33060
ataccetget acctedas	tt tttctcccta	a cagnacect	cagagacgas	r ctgaccccaa	33120
ctcaccttca ggatccat	tg gaaacaaaga	gaaatetee	. occupation	DDEDSSDEDS	33180
acagaaagca accaacta	tt ccataattt	cttetetage	ayayarraa	taaaccadda	33240
cetgaaaatg caaattas	da dadqqatqti	g aatgageee	agectatage	ot acct aaaa	33300
cacaactttt cttgtgta	ige gaggaaggei	aggaggcagg	acggegeet	gegeeeeaaa	
					33420
eccagagece ageateer	ac cctaaatga	g aacacaggu	- decidacesco	a setetedata	
gtggteagaa tgaecca	ica teedaggag	g cacetgeca	. tagunggua	r cocteacete	33/100
harmanach gazachai	era chaatccac	c ccadiddac	,	r cccioacee	22 1 2
the second part and agent a	att caacadatac	t actaacctq	a receedad ia	a ggcggcagag	
appropriate thratta	иса афазавачч	c caggiggag	t gantyman	c acgestgene	
teccageact ttgggag	get gaggtggga	g gatcactta	a geecaagag	cocyagaccas	, 55550

ceteaacaac .	acagtgtgat	ctcatctctt	caaaacacat	ttaaaaaaaat	tagecaggtg	34(0.00
tggtggcgca (cacctataat	eccagetact	tgggaggetg	aggtgggaag	atagettgge	34(:41)
occaggagtt	caaqqotqsa	gtgagetatg	atcacaccat	tgeactdegg	cotggacaac	34140
aaagaccetg	tetetaaaaa	ataaaaataa	aaagttttaa	ttttaaaaaa	ggttaaatac	34200
taatgagaaa	ggtggagata	casattttca	tigticactiget	atttataagt	tottattaac	34.69
tgaaaacact .	atortataao	chattaaagg	taactaaaaa	ataasaataa	etetttgeee	34 2.00
caaagacagt	ot a autoraca	gaget cagta	eteacteate	aacaacageb	ctqaqaqaga	34 (80)
caagagatgg	aamamattee .	aaccccaada	aagaactaga	agagagagag	gggaggagge	34440
atgggggagg	aagagaccoc	dadeeeaaya dadaaaaata	aaaaaaaaaaa	gatggggagg	agageccaga	34500
acgggggagg .	ggacccccaa	gagggagsea	arragagaga	gggagggag	cticcaaaaaa	34560
gagcatgggg	.999a9999aa	cacadagagaq	actict and an	ggaaact acaa	anagagagat.	34620
ggggaggga	gaggggagac	ggggagggga	geceeaggag	ttaaaraaaa	anant aggad	34680
999949999	goodcaggaa	ggageegggg	gaggggagea	aggggagete	caddadadad	34740
aggggagete	Caajagogag	ergggggagg	ggagacgggg	ctgggggaaa	agget bagg	34800
etgggggagg	ggagatgagg	aggggagcee	caggagggag	ggaggagate	taaaaaaaaa	34860
gagggtaget	caatgaeggg	acgragagar	ggggagccaa	gaaagctggg	gaagagaata	34920
gagettgggg	agggagacg	ggggagggga	gacgggggag	et and at au	agaaaatggaaa	34980
tgggagaggg	aagottgggg	agaggateta	gggaggggag	ctgggggtag	addcaaddaa	35040
aggagaaatg	ggagaggagc	ttggggaggg	teaaaaaaaa	aggaaatetg	agggaaggga	35100
gctgagggag	gggaacttgg	ggaggggatt	Lagggagggg	agetggggga	aggggageet agttagggat	35160
agagaggga	cttcagggag	gggagarggg	agaggggatt	ggggaggat	ggceagggae	35220
gggatctagg	gaggggattt	gggggaggga	agettgggga	ggggatctgg	gggaggggag	35280
tggggaagag	agatggggag	tcgggggagg	ggaacctgga	gggagggatc	tggggaaggg	35340
gattttgggg	aggagaacag	gtggagagag	gagctggtgg	ggagggcagt	-tatasaasa	35400
catctggggg	agatttgggg	ggaagggaag	etgggegeee	acaggagccg	etgegaggeg	35460
ggcaagcccc	tettteagtt	cetectegae	agtcagtctc	cagacttcca	ccccaccccc	35920
ccctgcttcc	acccagacag	tctgatctgc	aactcggccc	atgactgccc	tananaggaa	35580
tecagetget	tctagcctgg	gaaccetgae	atgageceta	acctgaccaa	gagagagaga	35640
cagggtgatg	gagcaaatgt	gtcctgtatc	ttgagcataa	cattaaaagt	gaggacccag	35700
cagaagtccc	ccagcgagga	cccagaaata	aggaatetet	ttgattcttg	caggitaging	35760
tttccctacc	cacataatct	ttagaaatca	tgtgtgccgt	aataaaagtg	attacattc	35820
ctcccttcac	teaagcacac	agaaacatcg	gagaaaagct	gagcatattt	ccaccagtet	35880
tgcatatgag	tttgaccaga	acaecctget	greggraatg	aatggttgac	acacactatt	35940
gaacacatat	ttccttttcc	aattaatttt	t-t-t-	atgagataaa	atagactacc	36000
ttttttaaa	gaacaatatt	cctgaaaatt	atacataata	ttttaaaact	acgaggccag	36060
agtttaagac	tggetcettg	grargaagga	acacacgaca	ttaatataac	cccaaacaaa	36120
atettecata	aatcaacaaa	acacccaaac	aaaggcagaa	cttaattttt	ccatcttaga	36180
aaacaaaaat	gtttttggtg	tecattageg	tastasagas	ctgaggactg	ccctcaatta	36240
atcttttaaa	tgagcagagc	taaagattte	ccataagcac	aattaaagca gtgcttaccg	casaaggaag	36300
atacetttag	ggggttgagt	accegeteca	aaccagcaaa	catgattatt	acttttttt	36360
accttaccaa	aagcaagatg	aaaaagugag	ggcagagege	ctcaagttag	accadacaca	36420
ttaagcagaa	gaacageeeg	caagaaaaca	caeaaaaaaaa	caggaagatg	tettgagge	36490
gragerearg	accycaaccc	gggacccca	ggaggecaag	tetetattag	aaaataataa	36540
aggagtecaa	gaccagcccg	atgataatat	aaggaccetg	gaataatggc	aattattttc	36600
yttaccaaaa	aacyctcaaa	thatattatt	aagggeggta	gacatatgta	tggattttaa	36660
CCCCCCCCC	tetestatat	tttaggtata	atttctaaac	cactaaaaaa	ttggcatatt	367.20
agcacttcag	tttttagege	acconsortet	actictaticac	caggetggag	tacagtagca	36780
contestigge	teastetass	teeeagatte	aagggattcc	ecegeetcag	cccccaagt	3€840
caatcatggc	agaaggagag	actacqqqcc	cccattaatt	ttttctgttt	ttttagtaga	36900
agetgggaet	acaagcacac	accaccacge	tetegatete	ctgaccttgt	gatccacccg	36960
gatagggets	caccacgecg	gccaggacgg	gcatgaccca	ccacacccaa	cccaaaattg	370.:0
gestattett	tttgaagggtt	tteeetttee	gagaggaaca	agageattee	ttacctqctt	37080
gracacecee	cttaggaage	agaattgaaa	gtctgcttac	ctgaggttta	attttcgatc	37140
gygagaaaga trottoocto	ccaaggaaca	act acadada	aagaaagaga	atateacacc	acaggcacca	37200
etatassass	accticadaca	great of car	attttctacc	ceggtactgg	aaaaagataa	37260
anataticean	gaaacet are	tactictaaa	cadeeqtoec	ettteeteac	caatcccgqt	374.10
chahecetta	gagtcattro	cataggggaa	ttttcaggtt	tecaaatqtt	gacccacatt	37480
ectaccacaa	ticcaggggat	ggagtectgt	tageteaaca	tttcctatct	ggtgttgtta	37440
cccagracgg	tettttagee	ctcagecete	aactttccqa	ggttgttctg	gaccttatcc	37500
		3	_			

tgtttttctc ttttaagggg	aggregationt i	atttaaagag	aatccacttc	ctocgcagag	37545
ccaggeaata acagetgagt	aggaggeeac .	attttcaaaa	aaccaaccca	ggeaagaett	375.1
gcacagtgga aggtggccaj	gargaaracc	atetartrat	gggtot tgaa	agetettgat	37-5-1
gcacagtgga aggtggccag	gaatcaggco	georgeoge	aggreetatera	tttatttata	3774:-
ggttetegaa aagaettaaa	catttgatac	gadacate	22222233	agtitiquant.	37300
taaatgcaag aaagagatat	ttaatatttt	etgassucia	aaaggccacg	tgaaaataag	37861
ccagaagtac ctatgactta	tttttattt	CECCOCCCC	gagageasac	cotattttt	3730
					37900
	ttgaatggga	aadadaaacc	Lugasagerg	rancad - read	38640
					38100
					38160
					38220
					38280
					38340
					38400
					36460
					38520
gaggaggaa ggcttcaatg	accacaaaac	aagt cacaag	agcaacaaat	tgacaaagag	38580
tatgttgggg tctaacccac	tacttata	tacagagcaa	gttctctcaa	caqqagacat	38640
tatgttgggg tctaacccag tggaagatgt ctggaggcat	* ttttataaaa	ot cact act o	geacetagtg	ggt agaggac	38700
aggateccae aacacacagg	. cccccggag	gecaecang	antottotag	toccaagtat	38760
aggateccae aacacacag	arggreecee	cacaagagag	acct agagat	ctgcccatga	38820
caacagtggg ttgagaaact	ctggtccaat	torgania	argatogatt	cctgaaaatt	38880
aaattagtca ctttgaatg	ttctcagaaa	taacaangiit	angactcacc	taagattcac	38940
attgatttat ctattcttg	t getetgeetg	ttcacacaaa	ggaactgaga	222200000	39000
					39060
					39120
					39180
	a cooracticac	aatcatttaa	i Cubucyguca	r ccccccaaa33	39240
aggraatta	a officiently a	atidadecade	goodacacac	, aggaagcaac	39300
					39360
					39420
					39480
					39540
					39600
atgtggtaca tecatacaa	t gaaatattat	acagccatga	a aaaggaatg	a aqtactgcca	39660
catgctacaa tatgcatga	- etttannaa	atastacta	grcaaagaa	ccaqacacaa	39720
aaggccacac agggtgtga	a cicigaaaac	. gogacycos	agaataagc	a aatccataga	39780
aaggccacac agggtgtga	t todatttata	thaddeges.	tadaaceaa	ngaggetgea	39840
tacagaaagt agattagtg	g ttgcctaagg	ttagggaga	a obgagaasta	t totogaatta	39900
ggtgagggct aacgggtac	a gggttcctat	tttggggag	g atgaaaatg	d tacactttaa	39960
					40020
					40080
					40140
					40200
					40260
					40320
					40320
					40440
					40500
					40560
					40620
					40680
					40740
teatecetge agetaea;	an mantagent	a etendadad	e caaqqqqqqq	a quetaggada	40800
agecaggeca accetgea	as standard	a aacaatacc	e toaatcaac	e ccagaggaaa	40850
agecaggeca accetgea aaqtggecag geaaacgg	gy ctaayagyg	a cacamacco	а сававающ	ed capaqtiquea	40920
aaqtggccag gcaaacgj	at organicae	a straceco	a atoggtcac	a gedadabaga	40980
ggacacgcaa cccaggaa	tg cacctatge	a accaeccas	a cadaaadd	a aagccagact	41040
aagatagatg cacataaa	ca cacaggeet	g agrgarge	.a Jagaaagge		

aaggetgeae geacas	roadt gooogsags	cacadado	ccacagcacg	ctcggtcacc	41100
gtcacacagt gacaco	gacqc gaaacacags	casacagago	daddcddcad	geggugaaac	41160
aateteacae gtttgt	iggea egectataga	atacetetet	capactagea.	cuat-laceaa	417.0
tacggraggt cagcaa	aggg geaccescag	as addagade	cadacataca	d (Caladdid)	41.580
ctaggactar corgge	teage (acateteas	acadadata	ac icagticac	chanteaau	41340
gtoccapting cacate	seate aggresseagaa	coagoggoes	actiocagage	cacreacasa	4.1.190
greenaging cacati	scaryt cardoocogga	cocceggood	teaacccaad	at diadadatica	41460
tgggagtoss gasag. casstgaaat casagt	logica cagooctoco	angat agagg	ctoracacac	antictictorea	41520
caccigaalt cacag	same acadacted	gaggecacat	aagagggggg	accoccaatat	41580
cagtcaccet taggg	gread sadgeadada	geococycot	atactacada	dagt decada	41640
gggggtaacc ccctg	and didentaged	pat dadded	cratagrant.	cacalcodead	41700
ggggtegeac tgcat	acaca guocougoas	agtogootoo	cacacactee	tracacagate	41760
acaaagteee egeaca	agete eccaagadag	ggccacacag	cacacagess	canadagaa	41820
acceeggtee ggetg	seagg etotyttest	ac ggcggggc	teagaggaga	arccaacaac	41850
generating coago	acged eggeocoagu	cooggogges	actigagagag	decension and	41940
ccaggooggg ogogg	egage eeggggetta	cocogocycc	anat acaded	cast access	42000
cgctgggcgt gggcg	agege tgeagggtca	ceagggccat	ggccgcggcg	cadeceada	42060
gegecacaga egtet	egage tagageegee	acceptoacceg	cegeeegggs	coctcoccct	41.120
geeteetgga geege	deded ddeddesdad	ccgagocggg	eegggeeege	eggagggete	43180
eggegtegee acege	ecceg cocceageto	ergeeteeeg	ageoggegeg	atacacaaaa	41340
agtgogogga gtggg	egggg aagegggcag	ggegggaega	ggaggegege	ccccacacacac	42300
gccetgaggg ctgcc	egagg ceteggetgg	cegarcaege	aggagagag	acaccaccca	42360
gegeeceege eegeg gageecgtic geece	egece egetateagg	toctotacct	gggggggggg	addcccd:dcd	42420
gagecegtic geece	agggg ceetgeeege	gereegeee	acatectaga	accadacaca	42480
accgtgcaga cagga gtggctcacg cctgt	ctgta cagtgattag	gaaacaaaag	acadacadat	tacgaggtca	42540
agagategag accat	aatee eageacting	ggaggccgag	ctctactaaa	aagacaaaaa	43600
ttagetggge geagt	cetgg ccascatggc	teccaretae	traggagget	gagggaagag	42660
aatcgcttga atctg	ggige gegeelglag	: aatgagetga	datcdcdcca	ctgcactcca	42720
gcctgggcga cagag	ggagg eggaggerge	aacgagcega	aaacaaaaaa	caaaaacagt	42780
aagcaaaata gatto	goota attitaceas	gottaatcaa	gttattaggc	acqtttttaa	12840
aaaagtattt tgcta	atett ttteaatea	ttetttetaa	grattetgaa	acccaqccaa	42900
ctccttggag gtcag	acced octtoccaga	agagetttat	tetgaggett	qqqcttgagc	42960
ataagcagga ttaac	agging galagacaga	gagacagete	tecaageagg	ggggatcagc	43020
gtgccctgaa gcagg	aagaa gtttgtcaac	cagaggccag	cactcaggga	agggaagagg	43080
ggaggaatgg ctgga	gtete catectetet	ggaaagatcg	ctccqqctqc	tgcgtggatg	43140
agggaccacg gggca	ganga chaaggaga	ccagggagga	ggetgetget	qttgtcccgg	43200
ggagaggtga ccagt	tatoo goatogagaga	qqqaacatqq	aataagatac	caagaaggca	43260
attctggctt gactt	agtag taggaaactt	ttcttttagc	caaaatctca	teteeegget	43320
cccaccccca acctc	tocat ottocacaac	q cactegeaaa	cgcagtggtc	ecagectgcc	43380
concanctta graaa	tttgt cttactgcc	aacaggaaac	ccacgcagcc	tectggatte	43440
trecedated effect	tetat cetagagete	g tgacctcctc	catgttattc	acagggrete	43500
agracgatte ateto	caaagg tgattctag!	: ggggggcact	gtagetteta	eggagegttt	43560
craagagggg atttc	ataada atatttata	g tigitetiget	gatggagggg	gagago	43620
ggcatttaga gtgca	aagage ettggatge!	t aaatgtette	caatgcactg	gacagtetee	43680
ccaacaagaa titgot	iccatt cocacaaaa	t gittleetggg	tgaaaaaccc	actuatagea	43740
attigaagee agaag	ectaac tecatttca	t qeatcaacac	- tagtetteet	tecticette	43800
arrectiest test	teette etgeettee	t teatteette	ctetettet	otoacttttt	43960
fretgaasea gogte	steact cocqtcacc	e aggetgaagt	. gcaatgtcac	aatcataget	43920
cactgrager treat	cetece aggetesas	t catectects	cttcagtctc	ctgagtacaa	43980
coordiacada coaco	cacaco cagotoott	t aaaaaaaag	, tttaactatg	Lttgcccagge	44040
aarceteetg etter	spectt ccasaqtqc	t gggattadag	i acagaagcca	i coatggotag	44100
ectootattt ttta	stgaat tiicagaaa	g grgadtatgt	: tgaaaccctc	tototototaa	44160
agaracaaaa aatt	accead deatocter	e gageacetat	. aatotoagot	: actcaggagg	44320
etgaggeagg agaat	teactt gaacccggg	a ggcagaggtt	: geageaatet	: gagategtge	44280
dactideacte cade	etqtqt qacacagca	a gacagagaga	i aagagagaas	33443344336	44340
францияния прави	aqqaqq qgaqaggag	g ggagaggagg	g ggaggggaga	ı ggagggagg	44400
desperance desperance	gagaaa aqaaqaqaq	a oqaqqqqaqa	a ggaggggagg	1 333-33-33-33-33	44460
ggagggaga ggag	aggagggag agagggag	q ggacgggaga	a ggaggggagg	, ggagggaaag	44520 44580
gaagggaaaa taca	ettigt titgettga	g agttttgtca	a agagttgtto	accontectt	44300

agggaaaagg a	addtaatdda 1	rageaacacc	tetgetaata	ttagagcatc	ccacacaagq	44640
tgcccacaac t	ataactaca (chehagatag	acadacadte	ataggtactt	aaatgtcaaa	44700
totopagggas s	estiminac .	aalaat tidadt.	tgagtagaga	atattttatt	r.ctcaaatcc	44750
angeacattg a	attattgggae	agrecatort	tetaagatge	cectatatec	tetmaqqgaq	448.00
tagtgq:tga	relatitedad .	attotaatuc	and tottte	attatqattt	attitutett	44880
tatgtitete !	godececopat .	ttraaaattt	a against that	gaateceetg	gagaaaatac	44940
agattgctag a	ccacaccage	cccsaaat.c	gagagecega	gaittactat	agggetggaa	45,000
agattqctag a	accecacete	ecagaget.c	gaat coacaa	tatatatata	dacdacadte	45060
aatttytacg (tctaacaaat	Coacaggoaa	cgscgacgcc	acceptate and	racquagasta	45-3200
t jaganetae 1	tgoctataca	aatgcaatgg	detecteace	a aga accord	agrantactt	45180
tgateetggt a	annagthogt	ggoododaat	eetaateebe	ougocougge	atattagaaa	45240
ttecastcas (cocaactttt	ttggaggeag	totocaccou	LLOUGHOUGG	occupage.	45300
tgagageeet	tttetteeec	adaactaact	cttgctagaa	ateaecteca	ialageecee	45360
ectgecectt :	aagcagtgtc	atttecagga	tetegtagee	eteaccetae	eccuatacac	45420
acageaagtg	teagtetgee	ttatcataat	gggtecatet	ctotgtottg	Ecceptuace	
gtagagecag	gaacggtccc	taagaaaagc	ctcaggaatc	aggetgggac	cagegtgagg	45490
gtgcaaaatg	taagagggtg	сссссавава	ctcaatgatt	aagataaata	gtattttaat	45540
gcaatatttt.	agaaaatcaa	aattaatgee	aaatccatga	tgaataaaat	atttttaaaa	45600
EFFACEFFFF	+++++++++	ttaattgaga	cagagtettq	ctctqttqcc	caqqctggag	45,660
tracactatac	cacaatetet	acctettaaa	ttcaaqcaqt	teteetgeet	cagecteeeg	45710
agtagetggg	attacagacc	cccaccacca	tgaccggcta	atttttgtat	ttttagtaga	45780
gatggggttt	caccatgitg	accadactaa	tctcaaattc	ctgaaatcag	tgatctgcct	45840
geeteggeet	cccaaaatgc	toggattaca	gqtgtgagcc	actgcacctg	gtcaaaatat	45900
ttacasaaat	tttttaagag	ccaaggt ct c	attetgteac	ccaggactgg	gtgtagtggt	45960
gcaatcctag	ctcacttcag	ccttgaactc	toggeteaag	ccatectect	geetetgeet	46000
ceggagtace	terretara	agt at acacc	accacaccta	getgaettta	tttttgccag	46080
coggagraco	tyagactaca	ggcgcacacc	gtttcaaact	cctggaggca	ctcaatcccc	46140
aaactgggtg	ctgctatgct	geceaggeeg	ceggcatgag	ccaccacacc	togccaaagt.	46200
egacettgge	ctcccaaagc	tergggacta	attatatas	tgattcttcc	acttacttca	46260
atcaaatttt	taagtaaaat	eggeaceage	attgtgtcac	tatttattta	attetttae	46320
gacttcagtg	tageteagea	aagcactttt	attgatectg	eatteacte	gggatggtag	46380
aactttggcc	attctaaagc	cttttgtgaa	aatggcctgt	ggtttagttg	tgaaaggagg	46440
cgtgcacctg	taatcccagc	tactcgggag	gctgtggcag	gagaategee	cgaaaccagg	46500
aggtggaggc	tgcagtgggc	tgagatcgtg	ccacttttga	eactictgict	Caaaaaaaaa	46560
aaaaaaaaa	aaaaaggaag	cctgtcggct	tgactccagt	agectetgat	ggggtggagt	46620
ggacaagggg	aagtgaaagc	teceaggest	cagtcagggc	aggtcccaag	aagecetgag	46680
catggaggag	gggaacaatc	cagtagaggc	agctctgaag	ttttctccca	tgcattagag	
ccctttccaa	tcagtatcat	gatttttcat	catataatag	tttatttaat	catctttgac	46740
ctcctccttg	tagtcccagc	tcacttttgt	aactaataaa	aaacagtgag	ttattgagct	46800
atttgctctc	tgctaaggca	caatgcaaag	tgctttgtga	gtgtgtgggg	gacatgattt	46860
attaacatgt	gactgtcccc	ccacttatac	tccaagatca	cctcctccag	gaagcettee	46920
traccccata	actagattag	gcaccccttc	tetgtgetee	tacageceet	gtgcattagt	46980
gacaatggca	ttatagatict	gccctaggcc	catttctggg	ttgggacact	ttaggtacat	47040
rearrettqt	caccctgtga	ttctcatttc	atqqgtgagg	aaattgatge	acagagt.ggt	47100
taaggcactg	gececaagtt	atqtaactaa	. ggagtggtga	acctggttca	cccatgtttt	47160
*ctgctt*ag	aact.caggca	aagacaggt.t	ettecaggae	agceteagaa	agtgttggtg	47220
casattaggt	togtocaaaa	gtaattgcgc	tttttqtcat		tttaatggtg	47280
cassartaat	tacaatttta	trattaatga	ccaactatta	taagtaatag	ttcccttttt	47340
tetetetet	gagagaaat	ctractictat	tycecagget	agagtacagt	ggcttgatct	47400
tractatatata	casactoccc	trectorati	chagtgatto	tectgectea	geeteecaag	47460
t-act rest	tagaggtaga	cacceccate	r eccadetaat	retrotattt	ttagtagaaa	47520
tagotgggat	cacaggugue	as against aget of	codagotdas	gacctcaagt	gatecaccca	47580
eggggttta	coatguiggo	Faggotggs	-datataaaaa	acticacaccto	gecagtagtt	47640
ceteggeete	cecaaagege	- egggactaca	toottaatta	rtcattccas	aatgatatto	47700
tgcctgttaa	agcanatanc	cograduate	. cocceation	a agaitat aga	tattccaeat	17760
agaggtaata	aagetetgat	aggetgaata	a auggeouges	aayatycoo	tattccaaat	47820
ccctagaatc	cctgcctatg	tracettge	i igotaagagg	general action	tgtgattaaa	47980
osdaggatigt	ttagatgggg	aaatttteet	. ggaggagga	. casysygtot	taatgtaate	47940
acaagggtcc	ttataagagg	gaggtgaga	a ggtcagagt:	: aguaguaaga	gatgtgacaa	48000
eggaactgag	ggattagagt	gaaggaaga	g gecacaato	: aaggaatgca	ggcagttgit	45060
aaaagtggaa	ааасассваа	aaatgaatt	teettteaga	gootcoagaa	agaatggagc	48120
cctgctgata	tetttttett	ttetttttt	g agttagggto	e tryctcacas	g agetgteace	40120

		cotcatage	ticacadcade	etedadetec -	aggeteaag	48180
caggetggag	tgeagtggea t aecteageet o	.catcatage	tacaactaca	gacacacacc	actatacceq	48240
ggattetece	tttaattatt a	ttatagtagt	aaattetaaa	gracatoroc	admitstaca	48,000
gttgactttt	ataggtatac a	accacacete	atageceeggg	acacccatica	acconditate	48350
ggettgttac	ataggialac a atti:teeta a	atgttatee	tasaataaca	caccaccocc	talictaasee	48420
tgcattagat	tgtt@cccat	acgreattes	tttttaamm	ereratt bat	tratttattt	48430
eggtgtgtga	gaggitetea (geceggeega	araart cara	cetateatte	caddactttd	48540
ttttagagac	gagg jtotta	googggogoa	aggantteaa	daccadeta.	ageaacat gig	48600
ggaggtaagg	cggg agatt	gottoagood	aggageesaa	acatroctor	ggetgaggta	48660
egasacesaa	aaatgcaaaa ctgagcctgg	aactaacegg	geacageage	coatgateal	accactatas	487.:0
-ggagtat ogt	etgageotgg :	gagatrangg 	orotagagaga	taaaagaaaE	gaaggtottg	48/80
tecageetgg	ttgatggggt taggetgtte	gagacestyt	pagat caada	astectecta	cctcadccac	48840
ctgtgtttcc	taggetgtte	ttgaacteet	aggittaagi.	tectaccase	grettgattt.	48900
cccagttgct	tggattacag	geacaageca	etacytttat	attatttaa	gecacgaaat	48900
tagacttctg	atctctacaa	ttgcaagaga	acadactcac	anact chack	tecatttaga	49020
ctctgggaat	ttgttacagc	agecatacga	aatyaatata	trecadate:	treceaaged	49080
ctttaaaaaa	catatcatta	taatgccatt	accoagcaca	atotttatta	ctatactagas	49140
ttgtgtcatt	ttctcattca	ctcaactcat	ccascaaacc	geatgagtga	cettaaagaa	49200
cactagteta	ggaatctggg	ttccatcagr	gaacaaaacg	tacacatata	trtagaatca	49260
cattcaatca	agtgggaaat	atagtaaaaa	tatatatata	gggaaacaca	acticatacct	49320
tatgtggtaa	atatattgca	tttaaatgaa	ttaataggto	ttgaggggag	gagttcgaga	49380
gtaatcccag	cactttggga	ggccgaggcc	agtggattac	ctacasasst	tagecoagttg	49440
ccagcctggc	caacatggcg	aaaccccguc	cocaccaaaa	gracacacaca	atcocttosa	49500
tggtggt ggg	tgcctgtaat	cccaggtact	egggaggeeg	aggedeadaa	agestagata	49560
ctgagggggt	gcggaggttg	cagtgageeg	agateatgee	attabatga	ttaatattoo	49620
acagagtgag	actgtctcaa	aataataata	ataataatta	attaaatgaa	tataatatac	49680
taagggteet	tagaacaaga	taggcactga	tatgtgtcaa	acaaacguss	tagaaaaaaa	49740
aatcatgaaa	aagcttggga	gaaaaacaaa	geaggeraag	tatttgagga	gaggaaticac	49800
cacttagaca	aatggtcagg	gaagettetg	ggrgaggrga	tacetgagea	attcaaactd	49860
catgacagca	ccaccaggga	ggtgtagaaa	eeet gggate	eachtttatt	tetatetata	49920
geeteeccae	taaggaactg	tgaggtactt	tttctgagac	geagestest	ccccccadde	49980
tcacccagge	tggagcgcag	tggcgcgatc	teggeteact	traggetet	gt.gccaccat	50040
tcaagtgatc	ctcccacctc	ageeteetga	grageragga	cacaggige	gegesaceard	50100
acccagctaa	tttttgtatt	tttagtagag	teggegetee	gaggetteag	acceagecage	50160
ctgccacctt	ggcttcctac	agtgctggga	ttacaggigi	gageeteeag	coordinated	50220
gacccactgt	ctttctctgt	aaaattgata		agegeeegge	cctgaggtca	50280
ggeteacgee	tgtaatccca	geactttggg	aggecaagge	gggcagacaa	autacasasa	50340
ggagttcaag	accagcctgt	ccaagacggt	gaaaccctgc	tenegaa	daddcaddad	50400
ttagccaggt	gtggtggtgg	gtgcctataa	teteagerae	ccaggaggee	cttcactcca	50460
aatcgcttga	acccaggaag	cagaggttac	agtgagtcga	ggecongeca	SEEDSSSSSS	50520
gcctggacaa	caaagcaaga	ctccatctca	aaaaaaaaa	. aaaaaaayaaa	tactatocao	50580
agaaagtggt	agtgctgacc	teagagetty	gttg.gtcaa	eggaacagca eggtattggg	ttgaattgtg	50640
gaaaggcaga	gegtgetgte	ctatttacta	acagcaneca	ttggaaatga	gateritaga	50700
tecccacaaa	attcactagt	ccctgtgaat	gggaccctat	ttorcatato	actoratoca	50760
getgateaag	ttaagatgag	gccaccaggg	- eggggeeeta	ctateatocc	andactifiad	50820
tatgaaaagg	gggaaatttg	ctgggogogg	cagozcaego	- deddddddddd	acaaaca: gg	50880
gagaccaago	g cgggtggatc	acctgaggtc	aggagerege	gaccagecag	arararataa	50940
agaaaccctg	tototattac	aaatacaaaa	LLagecagge	. goggeggege	tagadattac	51000
teccagetae	ttcggaggct	gaggcaggag	aateaetega	accegggggg	actocatoto	51060
agtgaactga	a gattgcgcca	ttgcactcca	geetgggeaa	t caagagegas	ttageaccea	51120
aaaaaataa	caaacaaaca	aataaataa	: tadataataa	aaggggaan	. ceggassarg	51180
agecaaggg	g aaaatgette	cegaaggtte	, caginginger	. g.cacaagic	- ttacatare	51.140
egagatggt	agcaaaccac	cagagetage	agryagaagr	. grggageage	r agagagtaaa	51:00
cttctgaag	a aaccagcaac	tegattteag	agttotaggo	, cccagaacco	, agagagcasa	51360
tgeetgtgg	t ttaageetee	cagtttgtgg	g Jacobogota	a cagcagedad	aggadaggad aggataggat	51420
egeatetaa	e atgateattt	catcagetge	: agadaatgag	y gereagagse	thotagecta	51480
ttgaaccca	g gecaactaga	ccccagacca	a caracacggs	y atattaada	i dacticaaadc	51540
ggaggt jac	a gtttggatgt	tecactattt	. gcagggaacq	y gregorodyne	, garacaaage	51600
ttetgecae	: tgggccaggg	tgtccagtgt	_ cagatacgg	a agreaggest	tgarggatet	51660
tgacaaagc	a totototoggo	tgggtcaata	1 ggcaccagc	a gecaggeag	. cgagggacec	

ctacccctat	geggagttgg	etgaageete	dettecteta.	cecatesett	catttaacct	51720
gettaceaga	tcaaggtgtt	cectageete	tigodaggggt	gtattcacct	gaatttgoot	51730
retate cact	atgatcacaa	geaacacact	gaccettget	qqqcctcaga	atotoaacto	5.840
rtaataaaat	geggtggece	atactaataa	teccaqcaet.	qqqaqqccaa	ggtgggtgaa	51:000
t cact triagg	ccacgagtta	gagaccagca	toppedadeat	qqcaaaaacc.	Egtitictact	5 (96.0
3333213333	aaattagcca	garcatagataga	catgeacetg	tagtoposgo	tactcaggag	52000
aataataaa	aagaatcart	togatecado.	agat ggaggt	tigitaatgagg.	caaqatcaca	52080
googacgiac	ccagcctggg	taacaaaaa	agactototo	traaaaaaca	аасаазадаа	5.:140
tatangatat	taatatggaa	trattaatot	cetataanaa	adcattagtt	adatcaattd	52200
Soccaaococ	tgtgatatcc	cyactaacyc	getateaate	atesteatet	cctdatattc	52260
gurararaca	gagtetette	cooccagaca	tagaagtgaa	gt at gt a a a a	actammatat	523.10
atgedetatg	gagtetette	acacaacaca	cagaaccgac	tagaggaaps	traggarar	52380
cacagatact	acagcatgtg	gettetgagg	granastan	catacastat	catogogge	52440
gtettgetgt	ctcttggatt	teceattery	ggggaactea	gocacoacyc	aggtetecta	52500
tttaggacat	ttaagcagcc	aaagagagag	ggeegeatgg	caagaaaccg	aggicetter	50560
ecaatgacca	geactaacct	attgtcatgt	gaatgeacea	corregadade	ggaccccca	5.:620
gececagtea	ggcctttatt	tatttattta	cttattaatt	gagacogggt	ctcattctgt	53620
eteccagget	ggagtacagt	ggeaccatet	tggctcgctg	taadcretge	cccccgggcc	51740
caagegatte	tcattcttca	geeteeegag	tagctgggat	tacaggogtg	egeraceacg	52800
cccagctagt	ttttttgtat	ttttagtaga	gacagggttt	egecatgitig	cccaggotgg	5.2860
teteaaacte	ctggcctcca	gtgatctgcc	tatctcggac	cereasagtg	ctgagattac	
aggcaagagc	cattgtgcca	ggececcat	tcaagccttc	agatgagatc	acagecatgg	50920
ccaacatctg	gagtgcaacc	tcatgagaca	ctctgagcca	gagetgeeca	gctgagctgc	5.1980
ttccagattc	caggcccaaa	gaaaatgtat	gagataataa	atgtttattg	ttttaagctg	53040
ctaaatttta	aggtaacttg	ttatgcagca	atagataact	tttatatgct	gccataaaaa	53100
tattataaaa	ccatgcacta	gtacagaaag	atttttataa	aatattaagt	ggaagaaaag	53160
aaaagcaggc	caccaaacag	cgtaggacag	tagaccccat	ttttgaaaga	aaaatgtgaa	53220
gagttaaaaa	actctaccaa	aaggggaaaa	aaaagagggc	atcaatggag	agatggagaa	53280
gctttgtttt	tggatgggaa	gactcagtat	ggtagagtta	acaacctctc	gaaattaaat	53340
taaatggaaa	tgctattgaa	atcccaactt	gattcttttg	agtgtaggga	tctttacaac	53400
agataactgg	acaagctaac	atttattggg	tatatatgtg	cgttgcatca	cgtgacagtc	53460
actotttcat	cttaattcca	ccataggaga	aagtccctct	ttatttaatt	tttctgagag	53520
taaaqtactq	ctattacctg	ttccccttcc	cattttactt	aggaggtttc	aagaggggac	53580
ttatctaaaa	tcctggaaac	cqtqqaqqtq	agatgacatc	aagcatgttt	gatatttaca	53640
tatataccct	tgggcctcct	gccacatggc	ctccccactg	tgccctggtt	tccctaagta	53700
ccagcccaag	gacacatgga	taggaaaggt	ggagctgggg	caccagecea	gtctgcctga	53760
ctccagagtc	cctggtctta	atcactaaac	caccccagaa	aagtaaccgt	gggagaagag	53820
acctgcaaac	taggaaaaag	aagattaaag	qqaaqqaatc	tgttctgcta	gatattaaaa	53880
catatgacaa	agctgtagaa	attaaaacag	aatqqqqccq	ggtgcagcag	cttatgcctg	53940
taatcccagc	actttgggag	gccaaggtga	gtggatcacc	tgaggtcagg	agttctagat	54000
cagtgtgacc	aatatggtaa	aaccctgtct	ctactaaaaq	tataaaaatt	agctgggcat	54060
agtagtatac	acctgtagtc	ccagctactc	tacagactga	gccaggagaa	ttacttgaac	54120
ctagaagaca	gaggttggag	tgagccaagc	tcacactact	acactccage	ctgggctaca	54180
gagggagget	ccagttgaaa	aaaaaaaaaa	aagaaagaaa	aaaaaaqaaq	aagaaaaaaa	54240
aaaaccgggc	gragtggctc	atgeetgtaa	t.cccagcact	ttaggaggcc	gaggtgggtg	54300
gatcacctga	gatcaggaat	traagarrag	cet.ggccaac	atggtgaaac	cctgtctcta	54360
guccuccegu	aaaatcacca	agatataata	ctacatacat	ataatcccaq	ctacttggga	54420
gactgaggga	agagaatccc	ttgaacctgg	aaggcagagg	ttgcagtgaa	ccaagactgc	54480
gactgaggca	tegagaacccc	acaacaaga	casaattcca	totcaaaaac	aaaacaaaac	54540
gccaccgcac	agazayaga	acatacaagag	gatactaaca	tagaaagcca	caaacagatg	54600
aaddaladda	acaaaaacaa	acatagaatg	actcaaacac	acaddaaaadt	ctggtgaacg	54660
aarygagcac	advactdagt	atassacata	gagtaagagt	deadgadage dadttactca	accaacagtt	54720
ataataygag	graygrater	gegaagegeg	gagcaagagc	cactoctact	ctccaaaa:t	54780
engengenac	Lygoraydaa	gradarycyg	acceptable	a a or t d d d a g d	ctccaaaatt	54840
aattccaaat	. gagteagtta	aatgtttaaa	adsucticaa	. aagregedag	geatggtgge	54300
teaegeetgt	aatucccagca	cttgggagg	cegaggeggg	tartaranco	gaggtcagga	54960
gttetagate	agtgtgacca	aratagcaaa	accucaccec	garagatara	acaaaaatta	55020
getgggeatg	geogagggeg	octatogtco	cagotactca	ggaggergag	ccaggagatt	55020
tactagaacc	caggaggcag	aygttgcagt	gggccaagat	. capaciació	acacticage	55140
ctgggcaaca	gagtgagact	cyttctcaga		aaaaaaaacct	tcaaaagtta	55200
tagaaagtct	grgrgagtaa	ttttaatat	. yaagcaaggg	agayayatga	agcagggttt	22500

shekaaaga tagacatgat gactgacga 5	5240
ctaaacatga ctatagecat ataaaagtat gttataaagr tgggrgtggt ggctcacgec 5:	5330
	5 4 1
	5440
	5500
	5360
	56.0
	5650
	5740
aaagttitig tittgetti gittitetag agteagaget aageaateet eetgeetetg 5 gtacaateat agetcaetge cacettgaac tettgggete aageaateat eetgeetet 5	5800
	5560
	5930
	5590
	6040
	6100
	61/0
	56220
	56080
	56340
	56400
agaccaacca tggccaacat agtgaaaccc catetetact aaaaatacaa aattagccag s	56460
agaccaacca tggccaacat agtgaaacse tattaggagg ctuaggagg agaategeet !	56530
agaccaacca tgggcdasat agngadagot actcaggagg ctgaggcagg agaatcgctt gtgtggtagt gtgcgcctgt aatcccagt actcaggagg ctgaggcagtc cactgcactc cagcctgtat	56580
gigliggiagt gigliggid dartetagst debuggid cartigracte cagoetgiat gaacceggga cacagaggig geagigagge aagateacte cartigracte cagoetgiat	56640
gacaceggga cacagaggeg geagegageo dagacacaa aaaaccacaca gaaaaaaacc gacaagagca aaaceeggte teaaaaacaa aacaaaaacaa aaaaccacaca gacaagagca	56700
	56760
	56820
	56880
	56940
	57000
	57060
angaggteag gagttedaga teagetegge databassa eccagttact caggaggetg atacaaaaat tageegggtg tggtggcatg egectgtaat eccagttact caggaggetg	57120
	57180
	57240
	57300
	57360
	57420
	57480
	57540
	57600
	57660
	57730
	57780
	57840
	57900
	57960
	58020
	58080
	58140
	58200
	59260
	59420
	59390
	58440
tgettaatan ttgaaaaagt gattaaagn aatgetgee gagtaagag eatteteeag acetgttatt etgtaactte etggeceeaa eagggttgae teetgeagag eatteteeag	58500
acctgitatt ctgtaactte ctggccccac cagggergac caggargae gttttqttta	58560
graaatgttt tiggootiggs orgactigtat ticagaacta ocaggaggto gtittgtita	5.84.20
	58680
aagttgettt egaaagteta gageeteeea ttaetaggat eagtgagttt aggaetteag	54740
ggtagtggaa agggeettgg teecacagag etgteteagg geacttaaat tteectaagt	

gtaaaatgga o	nacttcaac c	ratatraata	titeteacet	ttotettttc	ttttcttttg	598H1
agacugggte :	tactetatt :	cccadacta	gagtgcaatg	geaagatete	agetcagtge	58860
egueteaace a	egcecege a	tcaarcett	chaccheage	ctoccaaqta	actqqqacta	55920
cadgeetgtq	icccaggeca a	gggtaattt	tttataaaaa	tagaatttca	teatqttqcc	58380
cadgeougud t	.caccacgct (rggetaacee	dat set set a	dechaqueta.	teaaagtget	59040
cadgertggta i	.caaacgccc s	-tataaataa	ctttttctta	aact cact ct	cctttttaat	59100
gegattacag	gegtgageea e	stytysetyy	tagetta	taattattaa	aat agccgag	59360
asagataaaa !	tottacacc o	etteetagug	ggtasettes	anangaataa	thutcocco	590
aagatactgt	ggaactttac 1	tttetgtaga	ttatatcacy	annacancan	angt agagga	59280
ageteattt.	ccaaaattaa .	ataataatto	taagtatget	tgtttgtaca	caycacagga	59340
cttt:tgaag	ccacaggena i	netecagtee	tggtcactga	tacctggggt	entectory;	50400
ctctcaatta	aaagctatag :	tgtagtgact	gagtacccca	gesoegggau	acaacctggg	50460
transported -	raggtaaaat -	acagggeqtt	ctgggggagg	tggeeeaegu	Cigiaacccc	59520
aggastttgg (raggecaaag	taggaggate	aqqagttcaa	gaccagooty	godaacacgg	59580
caaacaatgt	ctatactaaa	aataaaaaaa	ttageetggt	geagtggeae	atgeetataa	
forcedctac :	t.t.aggagget	gaggcacaag	aatcacttga	accagggagg	cggagtttgc	53640
adtoadccaa :	gaccacgeca	ctqcactcca.	gectgggcaa	Cagagogaga	CCCCACCCC	99750
aaaaaaaaaa .	aaatatagat	acacacacac	acacacacac	acacacacac	acacacacac	59760
acacacacat	atagtatect	ggaatctatt	tectagatet	ggcaacccta	acctagttca	59930
carttggggc	retgetteca	gacaqtqtqa	ctataagcac	agtetgtett	teetttttt	59880
Ettatatataa	cetetttett.	cttetttect	tetteectee	ttgcctgcct	getteetee	59940
totttcattt	ttetteetee	ctttcctccc	ctccactccc	ECCECCETCC	LLCCLLCALL	60000
cattaattcc	tototoottt	tototototo.	tttcttcct	aattqtqtca	agtgcatcaa	60060
tattaatttt	aastatocao	cttgatgaat	ttttacatat	gcataaactc	ctgcaaccac	60130
toccasect	aaacacgcag	tttccagcat	cccaggaaat	tttctcatqc	ctcttgctgg	60180
tacccagacc	aaggagcacg	agecagtett	ctcacagect	gttattgtca	attaattttq	60240
teagratete	ceecagagge	aactactect	atgcaatatg	agetettaag	tatctaacta	60300
tatgttcttg	adttttataa	tananttant	tcaggttgct	atatataaca	gtattttccc	60360
cttcttctta	acctaatgac	taretat	gaatttttt	ttagaggggg	gagttttgtt	60420
ttttcattgc	tgtataatat	tecattgtgt	cctctgtctc	atagatatit	gattatttcc	60480
tcctgaaaac	accacaattt	gtttatccat	teeggetee	dtagataere	accettette	60540
agtttggggt	gtaaattcaa	aataaaatee	taagggteca	ceasatgate	adacaddadd	60600
gcaaagggaa	ccccagaaaa	actttaaaaa	etttgtttec	agccacgacg	agacaggagg	60660
tcaggcacac	cacattacac	tecettectt	ccttttgtgg	coccagacaca	cccaatcccc	60720
agcatcaatg	ctaaaataga	gggctgagta	tggtgactca	caccigiaat	ctcagccccc	60780
tgggagactg	aggaaggcag	atcacttgag	gccagaagtt	cgagaccagc	acasaaca	60840
tggtgaaact	ctgtctctac	aaaataaaat	aaaataaaat	andataatta	gccaggcacg	60900
ataatacata	tectataate	ccadctactq	aggaggetga	qqi,qayayya	Legerrage	60960
ccaggaagca	gaggetgeag	tgagtcatga	tetttecact	gcactccage	argggraara	61020
gagtgagact	ctgtctcaaa	aaaaaaaaaa	aaagagagag	agattataag	actgacagaa	61020
cagacttttt	gtggcaataa	gataccaaat	tataaacaca	geetaaggee	atgtcaggca	
agggttaagt	caddtdcccc	tactcttaaq	gaataaacta	tgttetaatt	atgitacaag	61140
attrttctt	+tctctagca	gcgaaacaag	cactqqcctc	agaagaagca	atattaaaat	61200
agttacaact	catctaggac	acagacacco	aactgacacc	cigttectec	agtcataaca	61260
acaact acag	ctttgattga	acaaqaqact	qaqtttggta	adtiteted	aacaaaaaya	61320
t cact gact a	tagactactt	ct.aataaaat	. tacqaaaccg	caacctcatg	tgeetgeatt	61380
ticctigaaaag	acattttgat	gtgtaggttc	: taattgtaat	acattgattg	attgattgat	€1440
caattgattg	attgagatag	ggtettaete	: tgttgcccag	getggaguge	agrygcacya	61500
tracaactica	ctocaacctc	tgcctcctgc	gctcaagcaa	. tecteccasc	teageeteee	61560
a agt aget gg	gactacaggt	geacgeaact	gegeeegget	actitttgta	ttttttgtag	61620
amagaggggt	trogccatgt	tacccaaact	: ggtctcaaac	: teetgggete	: aagcgateca	61680
agasaggggg	actocaaaad	toctagtatt	ataggcatga	gecaccatge	ctggcctaat	61740
fataataat	ttaaatgtta	agticticcacc	ccaaaqtqaa	catgggttgt	atgttacatg	51800
cacatttett	catacacata	tattaggggg	accttcataa	atattcatac	ctteteetgt	61860
and reget	atatateatt	cadecaace	cttcagcaca	aageteetaa	cccaacccct	61900
aaccegetgg	actaccate	terattette	dt addagge	tactteccae	gecatggact	61990
ecocctccaa	tagaget at an	coocttates	gaaataadat	ttetteteet	ctctgaattt	6.0040
gateacettg	cyggccataa	++++++++	- ttadttaaca	aggactatga	acattettae	63100
acacattigt	gattetttt	at at t t t co	thatchtago	tatatatata	ggcgtgggca	6.0150
agaageettt	Lyaccgatgt	gegettecai	teacterage	r chagageas	tttctgaatt	60000
tgatagatat	taggatagcc	acceleade	. coagragati	acadddchd	ttcgagattc	62280
tcaactctga	aytggggatg	acaacaaca	g caccegotte	- acadedced		

aaagagaaaa t	ctagataaq	geagggtgeg	gtggctcacg	cctataatcc	caccactttg	62347
ddaddccaad (gt.gggcagat	cacctgaggt	caggagttca -	agaecageet	ggccaacaty	6.400
grgaaaccet c	gtetetaeta	aaaataqaaa	aacaatgagc	caygtgaggt	ggtatgtgcc	0.4
totaaacoca s	gecaeteggg	agtotgaggo	aggagaatig	ctugaatetg	ggaggragat	6. 5. 4
at tacaataa k	attgagatgg	cacca et gca	ctccagcctg	ggcgacagag	tgagadtctg	62580
ticticadaaaa a	aaataaaaa	gaaaaaaaqa	aaatccaggt	atitagaatt	ggtabaccgc	6,1640
autitacasa :	a rort aaatta -	ttastataat	qqcaqtqqqq	agcatyaaya	Lat Cygatica	6700
actititatos :	andthcaagt	geteceatga	tqaattaaac	acacagggaa	etttataagg	52750
gocatatgtt :	atataadtda	tacatgacta	ttatattasa	attcasacta	gttagatata	5.820
angtasasag	taaatttcac	cctatocatt	ttttattatt	gaagaaaaaa	aaatatgtca	6.880
t vacataata i	act tatacet	gt aat decaa.	ccctttqqqa	gategaggtg.	ggat-gattgc	62040
ttgaggecag	gagtttgaga	ccaacttaga	caaaatagca	agaccetqte	tttacaaaaa	63000
gtaagtaatt	taactaaata	ttatoocato	catctgtagt	cetagetagg	ctgaagcaga	63060
aggattgctt	dadedeadda	at ticaaaaca	ccactgcact	ct-agectggg	tgacagagtg	63170
agatectete	tatatatata	tetettttt	terttert.	ttttatttt	tgagactggg	67380
toteactots	tanagaaaa	tagagtgcag	taget taate	ttoattcact	gcaageteeg	63040
cotcocagtt	coacccagge	tettecetea	geet ceegaa.	tagctgagat	tacqqacatq	5 (200
tgccaccacg	caagegaeee	ttttatattt	ttagtagaga	raggetttca	ccaacatgtt	63360
tgecaccacg	geeggeeaac	cctaacctca	agtgatggat	ccacctcggc	ctcccaaaqt	63420
gotgogatta	getteaaacg	cceatcccca	tagogatosaco	ctatctatta	tetttettt	63490
getgegatta	Caggeaagag	*****	agacagagta	tegetetgta	acceagacta	63540
ECCECCEC	tegtececte	ttaactaact	getaceteca	cccaccaggt	tcaagcaatt	63600
gagtgtgcag	Liggigeeate	at aggereace	ttacaggcac	accccaccac	tectgactga	63660
ctcergeete	agecteege	grageragga	caccatatta	gccaggctgg	tetegaacte	63720
ttttttgtaa	ttttagtaga	gaeggggeee	toccasacto	tcagaattac	aggtgtgagg	63780
ctgacctcag	gtgatccacc	caccarggee	acceaaageg	actatgcagt	gagtattttg	63840
cactgtgccc	ageegaeeet	CLLLLaaaaa	ttatttaata	atactaaagg	caggigitag	63900
catgcatttt	cttatttcat	cttegtettt	tacctgate	agggctggtt	aatccctctc	63960
aggetggatt	gctaaagctg	acccaaagaa	tanaatacet	geagatetet	gggctctaaa	64020
teteaggeet	cagtetteee	acctguacag	cgaggegeee	gcagatetet	tacttacate	64080
aatcacagct	ccatgtttat	ccctggcaga	ggaagggccc	ggagtcctgc	teacetecae	64140
tetgggatae	gggagcaaag	agecacgcat	terestage	cacacaggeg	ccacccccag	64200
teteteettg	gcctcatctc	eccagegice	Lggaatggca	traggetage	ccagggagaa	64260
cctgtcctgt	gcctctcctt	tecectcagg	ggetgeeagg	ctgaccaccc	acaddaada	64320
ccaggcctac	agtgccccat	ggaacgteet	gaccetteece	cagggtggca	gtaggaagaa	64380
ggaagaaagg	ggateetete	cagetggeea	gagagacaga	ccttcttgtg	cttgagatga	64440
ctccaagaat	geetgeeete	ceteetteee	ccaaggeerg	tccacagggg	caagaataaa	64500
gccagaaaag	tcaggcaact	tttcagggac	tgggagcgag	grerecegge	cgggcctggg	64560
tecagtetet	gtgggcagtg	cagtgccgag	ceceaceect	caageegtge	ggaaagagg	64620
gctccagact	ttgaccctgc	actccagtcc	gggctggcgg	acagagggct	ggaaacaaga	64680
cgctccagaa	tcaggagctt	cccctcagga	aatagcatee	tgtgtccccg	ttaagataa	64740
gtetggtete	tccagcagtt	tggtacttcc	ggtgagrggc	agatgeacet	ttgagetggg	64800
gacaggggtt	gggagagggg	agaggcaaag	gatttcatqt	ceteecaatg	teaaagacag	64860
ggctcaacat	tacagcctaa	ggcaggtgac	aggaaaggag	agatecagee	totoaaacat	64920
ccagcagaga	gaccataggt	aagtgatttt	teceteceea	ageeteagut	tetteacetg	64980
gaacatgggg	arcataacto	coctottaca	. gegtgagtet	gagtgttaaa	agaggtggtg	65040
catgtaaagt	gettagagea	gatetaggea	. catageaagt	actcaaatgg	tagttattat	65100
tatttttggt	ggggagttg	gtaggctggt	teteaaaett	ttatagette	tgttocattt	65160
caaggataaa	ctctgcaaat	aacttcatga	gaagtag:cg	tgtggtgcaa	ccagggagaa	65220
ctaattatgt	tcattcaaat	genteatete	tggettacte	attttttt	ttaaaaagaa	
gtettteata	ttctttgcta	tgggcacata	geaateaaag	geateagets	teteagattg	65080
cettetaggg	gacaagggag	gtootaggoa	qataaatgca	ı agactgaaaç	, acaagcagaa	65340
agcat.caagt.	ggcaactgca	tgccaactgo	: ctaaatatit	: ttttggagca	ı gtgca-gaaag	65400
concoataga	actodotota	ggtacgaato	ctgtcccata	ı etgaetgegt	. aaccttgggt	65460
gagtgacttc	tectocctaa	acctdagted	: dagdetecac	g aatgagggcg	gtaaccttcc	65500
etact*ccta	- daddadttaa	gaggattgag	aqqattatgt	: eggtaetgea	i tetacaggig	65580
tictogcaagt	ggcagagacc	aaaatacatt	ggtteectte	e etgetecada	i ettacacaga	65640
cattetaate	acacacacac	acacacacac	acacacacac	acacacacaa	a atataataat	65.700
cccagetatt	tacatettet	. gggatacata	a ctccaagctt	: gctgggttga	a agtaatgatg	65760
taaaacagag	gagaacggca	acactaata	a aaacatcago	e aacaacacga	a aaatgtccaa	65820

the contract of the contract o	65865
cogaataact gagetgggtg egtttaagte caaaagetea ttacetacae geatgaatga	
getgecagee tggcacatgg tagg.gaga etagggagt teaggtagt cacateac aattaagtea cagetgtace atttaactgg etgtgtgact teaggtagt cacateac	ct 68930
aagttgcatc attcaccage equgigaccag taggedaagee taggedaage cagtgtttee atttgcaaaa egggaacaat gatatteett esteetaggg gteategg	ga 6:360
cagtgtttcc auttgcadad cygyddcada gdcarboosb 1100011333 3	

aggicaaata taaaaagggo tiggiggigt siggicaccii ciaagcciic agiggatggi	694. □
aggicaaata taaaaaggge tiggiggaga siggigatgat gitgigeetea accetteett ggeaatggeg ctaaggatga tggagatgat ggtgatgatg gtgtgeetea accetteett	69450
ggcaatggeg ctaagqatga tggagatga ggragadaa ggagtcateg ggetgtecae cecacagget getgeaatge gtgtggtgt gattggagca ggagtcateg ggetgtecae	6954 /
egecatetge atteatgage getappaete agteetgeag ceaetggaea taaangteta	69600
egeggaegge ttraceceae teaccaceae egaegtgget geeggretet ggeageceta	69661
egeggarage ttaaccccac teaccataac cacaggagge gtagatgagg gtcacatagg gtaguctggg	15 517 . 111
gtgcccatga acctaagest gragagggag tragggtter rateaccaag agea greece	6978u
gtgcccatgi acctaagest geagagging teagagette caggegtggt ggtteacges ttgtggaage tactgateta geataaaata aagaaaatge caggegtggt ggtteacges	69840
ttgtggaage tactgateta geatalalid dagaadeg, caggagaga sa	69900
ttggggagg tartgatte gentergg aggtegagg gggaggatea ettgrægeea ggagsteeag ttaateets geaacttigg aggtegaggt gggaggatea ettgrægeea gaactatti	69960
atcagestag geaacgtogt gaaaccecat tetrageage transcarge assessttt	700.10
catggtggog cacacetgta ateccageta etegggagge tgaggcagga aaaccatttg	70090
ageotaggag gtgaaggtgg cagtgagetg agatteegee actgeacteg tgacagagtg	70140
agectaggag graaaggag tagaggag agaaagaatca taaatattaa geceettget agactetgtt teaaaaagaa aaaaataaaag aaaagattea taaatattaa geceettget	702:10
etgtgecaga tactaggagg etttgteteg tetteeetaa aetgggtgee tgteaatace	70060
acatgattag tgaatetgga aaactteete tgttttaatt tatacatttt tattatttt	70320
ttgagattgt gtttcactct tgtcgcccag actggagtge aatggcgtga tcctggctca	70280
etgeatecte tgeeteecag gtteaagega tteteetgee teagettere aagtaactgg	70440
	70500
teatgrigge cagactegte tegaactest gaccteaagt gatetgeeca cettgacete	70560
ccaaagtgot gggattacag gcatgagcca tcatgccttg ccaaatttta tctttttaaa	70620
	70680
t-sectort good cocas sagingings affacadqua tqaqcaaca tgcctegou	70740
	70800
cotaggetca agtgatetge ceteettgge etcecaaagt gergggatta caggegaga	70860
	70920
	70980
	71040
to a service of the s	
the same address at datectrons coreageous coadquageg aggreet act	71100
	71160
the against the telephone of contract caagigacco locigotta goottoogaa	71320
takanggata aggartana cccadccada alliladile acadagongo	71280
annuaged that total captured that today coday coday	71340
	71400
to the second and address and	71460
	71520
total and an analyzed and an analyticated dadcodcadd togatotic contraged	71580
	71640
-t	71700
	71760
	71820
washing thit again accordance Coligateate ecacagooc acques	71880
	71940
	70000
	72060
-terrograph officerate appropriate accordance quality quality and appropriate	71120
aggregat tastcacada tdaddddddd dEdCEEEddd ECECGEAGGC Adeagaceaa	72180
bearing a paragraph to a thranaffor attitition type and the conference	72240
	72300
Lateratteria atomotasas tamasacato EECEGCAGEG ACGGGCACCE 9909009449	72360
	7.1420
	7.490
to the same grade and the attribution that the transconding decided the contraction	72540
	7.1600
	72660
	,
tttttgagas agggtotoac tgtattgooc aggotggagt gcattggcat gatotoggot	72900
Contradat additioner of careages and an	

	296-1
	30,00
	3-1-1
	3149
	3,1014
	3.860
	334
	3 1 5 11
	(344a) (35)(6)
	13560
	73620
	73680
	73740
	73800
	73860
	73920
	73980
	74040
	74100
gagtttattg transggtaa aggggattgg ggtactace aggeertggt accetggtet ggcagcagag ggtagaggca ccagatttce tgtectacec aggeertggt accetggteg	74160
estigatecti ggiocagete etteagagag getacecaet caaacetige ettiggietig	74020
gaaggtaggg ggtatgaaat cacagatete aagcecagaa getecatate accatattgt	74290
gaaggtaggg ggtatgaaat cacagattic aagcotagad stroctaagg teacacagec tttgtagatg aagatactga gtttcagaga ggctaagtga ettectaagg teacacagec	74340
tttgtagatg aagatactga gtttcagaga ggttaaggggatga tttcttttct	74400
agtggccaa actgggatte caaccagtet gtatgacece acaccectee tttetttet	74460
dagtggccaa actgggatte caattagtet guttagate geacaccace caacaccaca cetgaatece ctacageetg atgcetetet ggtettetee teaccecace caacaccaca eetgaatece	74520
	74580
	74640
	74700
	74760
	74820
	74880
	74940
	75000
	75060
	75120
	75180
	75240
	75300
	75360
	75400
	75480
	75540
	75600
	75660
	75720
	75780
	75840
	75900
	75360
	76020
	76030
	76140
gggatgtagt ggtatjaaca caactcacag cagoctcaan thootggget caaatgatee	76200
gggatgtagt ggtatgaaci caactgatag tageteath tgcascaatg cetatetaat teecacetea gesteshaag tagetgggac cacatgeatg tgsascaatg cetatetaat	76260
toccaestea gestesaaag tagetgggad eacatgstag tegendatg etcaaacee ttttaaatat ttttgtagag atagggtete actatgttgs coaggetage etcaaacee	76320
tittaaatat tittigtagag atagggeste actatgetgs saagstaga accatgaga	76330
toggetreaag eaatetteet gesteageet occaaajtge tigggattaca ggogtgagea aacaggeeta geaaaaattt geattitaag aagetteetig gegattetaa tiateageea	76440
aacaggoota goaaaaattt goattttaag aagottootg gogattotaa trattagoon	

tgtttgggaa tcattgtact	o o a o a o taga a	tatttetect .	aacct gggga	cacatgaccc	76500
tgtttgggaa tcattgtact ttgtccagtc ttttccagga	aagacatggc	ct coagat at	ttttctatct	tgaggaaat.g	76560
atggaaatga gatagttoca	addatatge	tanaattatt	tttggcttat	trectation	766-0
ttggatgttr ctagtgtatt	agggcatg. :	trottett	etter ettet	tttgagacag	75680
agtritigete tgtcacccag	cottacet.c	pataggagaa	retedactea	ctocaagete	75740
egenteetgg gttcatgoot	gorggagrgo	tanguat aca	gagt wichtg	gaatacaggc	75800
egenteetgg gtteatgeet	cocceegee	trat ittatt	agt a ragado	gootttcacc	76860
gbetgecae: aegtetgget	aanticttit	act cat ast a	eccepagete	ggeet.cecaa	759.:0
gtgttagcca ggatggtctc	aateteetga	-cetegrates	ttataatata	tttctaatcd	76980
agtactggga ttacaggogt	gageeaeege	goodogotgt	antaract ca	accentation	77640
tgatagatgt ttttcctatg	ggatgtttaa	anggagggg	gatacaactc	teceettete	77100
ctecteatge ceggettetg	acasagggga	acceggeace	ggtandaete	ggaagtgctg	77140
tactotgaat otcattgoot	ttgatgttac	adaggaatge	gactcactct	atogeettea	7721.0
ggggctaaga ggcctgggtt	tgagttccaa	occontract	tagazgatet	ctgatttctc	77280
gcanggccct tececcaete	catetgeeca	acaaggggct	angetentit	gatgacacag	77340
aaaygagatt ttytggacca	ccagtccagt	aggugeteat	gagetgatte	taaraaaaa	77400
coatettete aageageate	ctgtgcaact	aacgcoogca	baay googee	actttttaat	77460
tocctgtgcc accettettg	gtgggatggg	ggcagasage	tgaacactgg	geetetegae	77520
gtgtttgate atcccaggtt	aactgagagg	ggagtgaagt	tetteeageg	gaaagtggag	77580
tottttgagg aggtgagttg	cagggetgat	geggtggatg	gggcagggaa	gaagraggga	77640
ggestetget tettgetget	gagtcggggg	ctcccttctc	aggeteetag	ggcccccaca	77700
ggcetgeete ageaccettg	ccccagaagc	actcaggtat	tctgaaggga	ggaagtette	77760
accttcatat taataataaa	aacaaaqqaa	cactgggatc	atggtggcca	LLaggageeg	77820
attratet daractcaat	gagttttggg	totagagage	Eggeegeart	tttttagtgt	77880
cadetocact ccaaggtcag	aacttaatta	cttcctagcc	ctaccgacat	Cuguyuuggu	77940
ctttctgcaa agtccaggcc	ctcaqctqac	tcacctctaa	agaagcacca	CCaccaacaa	78000
taatgacagg aasagccacc	atctccaggc	accagcaaaa	agagetttae	tgtatggett	78060
cattcaatcc cagcatctaa	aaccctqctt	qqcacaaqga	aggcgctccg	tacatgtage	
tactagtgct atgtcatgaa	gactaacctg	ctctggtcag	gccctgatgg	acaccgaaga	78120
tacatogicg acccaatgca	qtcctcattc	tcagtcattc	actcaggaac	aatagtagtg	78180
tottgcaatg tgtgtgtccc	ttaacttact	cgtggtgaga	gtcactgggg	ctgggttggg	78340
mancttaggg gctcacgatg	cqtqcttgag	atgagatcat	ctcatctgta	gacagageig	78300
goottocaac gtgtcttctg	caaatgtctt	ggcagagtag	aaggcaagag	aataaagtta	78360
associates dasociadas	gagaactctc	tetacttect	ttctgacttc	ttttgggagg	78420
ttccaggaag atttccccca	tccaaaqaac	tgttttacaa	ccacttttat	atteagagee	78480
etganggagg etgataacag	cctatgaaca	accatagaca	gcct.catttt	acaggggcag	78540
ctgagaatta aggaggtaac	cagacatttt	caaqqtcaca	cgtcagataa	arggcagcac	78600
dagaatttga agccaggccc	ctctgattcc	tcattqagac	eteteeccac	tgittattag	78660
ggagtagaca gattgagggt	agaagaaagg	ggaagagaga	acaggggata	ccagggtctt	78720
coccacettt catececcae	taccctqttq	gttgctacca	ggtggcaaga	gaaggegeag	78780
acctdattgt caactdcact	gaggtatagg	ctggggggct	acaacgagac	cecetgetge	78840
addresdance eggetagate	atgaaggtga	qtqtqagggt	gagaccccta	ecttttgtta	78900
ataggaagat cattetgeat	acttatttca	teceteaaga	tcatggacaa	atcaggaaca	78960
tetattagag gaaccccccq	aactacaaaa	aattqacatg	taaaaaaaa	adacetyce	79020
cacceccatt getetette	aggatttcct	cttgatcgtg	aagcatgcat	gtatgcgctt	79080
otacctatot gugagcagca	tatgcctgta	ttqcaataaa	. aatagcaaac	: attagagtgt	79140
traccaaded cdadatacad	teetaagcac	: tttattgtgt	ttattattat	Latinatiat	79200
taattotott attattatta	teattqttat	. tattatttt	. gagacagggu	. accacticat	79260
tacccaggit agagigcagt	atcttgatca	. tggctcactg	tagecttgac	ctcccagget	79320
accepactted cutectdedt	agetgagaet	acaaqcqcat	gecaccacca	Lycuragoua	79380
arretterat tettegtaga	gaaaqqattt	: caccatattg	ctcaggctgg	, coloadate	79440
chaggeteaa grgateceee	caecttqqc	tqtcamagtg	r cegggariac	; aggegegege	79500
caccacoctc adoctattot	gttaattaat	: ttaqtqatgc	i ccacageee	. ccgagccggg	73560
tagtaggata togttattgt	catottacac	: atqaaqaaat	tgaggcacag	i aliaantiaan	79620
taacaggcac aagttcacac	ggtagtagg	: agtgcaattg	g ggattggaar	. Coaggoance	79680
 taactitaaga geetgtgegt 	: dcaadcatto	g ttdramgeet	: cotourgous	a randededed	73740
targagggta tgtgtgtgtgt	r catqtatqtq	r tqtqtqtqta	ı tgtaagggt	a tgtgtgcata	79800
ranghahata catatataa	a aatatatata	g catgtgtgag	g ggtgtgtgtyt	a cardidideaca	75050
agggranging catatgtuat	: aatatataca	a catatgtgag	g ggtgtgtyti	a caracacaca	12220
agggtgtgtg catatgtgtg	atagtatata	tgcacgtato	g tgggggtga	t tgtgcatgta	79980
application occurrations:	,				

		bet anten	tatiacatasa	tocacachat	atgagggta	80045
tgtgagggtg t	atgigoata	gegegaegg	egegegegea	agtatatata	cat at at gat.	801:0
ggtgtgtgtg t	augugugug	adgegegege	tatataaaaa	tatatatatata	catatatata	801(-)
agggtgtgtg (gtgagggta	egeatgeatg	tacatacata	tatataaaaa	atatatat	802
agggtgtgtg c	rangtatigea a	agggegegeg	atatagaaa	asatatata	agatatatat	80050
ggatgeatgt 9	gagggigtgi	gegegeacge	gegegaggge	gegegestigt.	at at at agga	80340
gtgcatgtgc a	acctgtgagt	geteatagge	gegeaggege	gegage state	atraactaasa	80400
gtgogtgtgt g	gtgttcctaa	egegggeega	tgggtqtaac	aassaarega aaaaaaaaaaa	acrasasaaa	80460
cataigtete a	aaatcatcga	ggtttatgga	godagottga	that assaula	atttactctt	80520
egagtcacag a	atgeacctgt	gactecttt	tecaaagagg	terreranggag	aggetta	80590
tatacatttt (etttaaaaaa	aaaaaagtga	gagaagggrg	tage agegag	agaacquetg	80640
catacttgtg a	aaactttagt	tagtgeecag	tadatotaca	thereadeat	gacgaaggee	80700
Lgggscaggc (gtggtgactc	acacctgtaa	teccagcact	ccgggaggcc	catchetact	80760
gatcacgagg !	teaggagtte	gagaceagee	tgqccaacgt	ggegaaacee	ctactcccase	808.0
aaaaatacaa a	aaaattagct	gggtgtggtg	gegggtgeet	gtaaccccag	codadactac	80880
ggotgaogca g	ggagaatege	ttgaaccegg	gaggcagagg	cegeagegag	222222222	80940
accactgoac	tecageetgq	caacagagcg	aggetgtece	adadadadaa	agadagaaa	81000
asattgaagg	tttgaaggaa	aaaggaatgg	aggaagttet	gcaccuggga	agacaagccc	81060
gtcattgatg	ttatcagtgt	ggagtetgtt	gaaagggctg	geecotycee	actectagg	81130
gaagaaagcc	taactttggt	caggtcattg	agggaggga	tacaacyaya	eatagagaga	81180
ctecetteec	ecegcagetg	tgaactcagc	tecaaggttt	etetggggst	teetggggcca	81.340
agaggggtc	tgttcagtcg	gttggggact	tagaatttta	tttttattt	catgigiat	81300
gcatttacat	gtgtgtactg	gtgcttttct	teggacatgt	gggtgaggag	aaacaatgct	81360
tcagggagca	ggggtggctg	ccaattaggg	cagctettee	tgcaagaggc	aageagteag	81420
gtgcagactt	gggccatagt	gtcatgagag	gtcttataag	gaatcagcct	ggccactett	81490
gtcaggacat	ctggccacag	aggggagcaa	gggcagccac	attgactcac	theetetas	81540
gagactttcc	tgccctgaat	caacaggtgg	acgccccttg	gatgaagcac	treatterea	81600
cccatgaccc	agagagaggc	atctacaatt	ccccgtacat	cateceaggg	taaaattyya	81660
ctgttctcgg	gcagaagagt	ggtccccttc	atgccctctt	catgaccetg	ergeereece	81720
caageteett	actccctgca	gttgttccct	ttcaatgttt	ttatgtacct	agecactice	81780
tattattatt	ttttgagaca	gagtttcact	cttattgccc	aggetggagt	graarggrac	81840
gatettgget	cactgcaacc	tetgeeteec	aggttcaagc	aattateetg	atattttaa	81900
ccaagtagct	gagattacag	gtgcccacca	ccacatccag	ctaatttttt	gracticitag	81960
tagagacagg	gtttcaccat	gttggccagg	ctggtcttga	acceergace	caggtgatcc	82020
acctaccctt	gcctcccaaa	gtgctgggat	tacaggcgtg	agecacegeg	teagettea	82080
tttcaatgtt	tttagtgagt	ttgagctact	gaatecetgg	gaaggcagac	teageetega	82140
ctgaggtcta	ccgtgaacat	tettttggat	gacaatagtg	grgargergg	agacaaaggc	82200
agtggatgta	atgtggtgac	actaaaagtg	gtatgtaggt	ggcccacgcc	tgtaatccca	82260
gcactttgcg	aggccaatgt	gggaggattt	ettgageeca	ggageceaag	accagettgg	82320
gcaacatggc	aagaccccgt	ctctacaaaa	atacaaaaat	Lageogggeg	tgatggtgta	82380
tgcctatggt	cccagctatt	cgagaggetg	agatgggagg	attgestgaa	cctgggaggt	82440
tgaggatgca	gtgagecatg	ttcacaccac	tgtactccag	atagggetae	agagegagae	82500
cccatctcaa	aaaaaaaaaa	aagtggtgtg	aacggcaaca	ar gggagagag	gaatgggaat	82560
ggtgattggg	getgatggtg	atgataatgt	caacggrgga	gaegacaacg	tcactgaaac	82620
cagtggtggt	gttcatggga	tgacaatatt	getgatagog	gaacggcggc	attagggata	82680
atattgtatt	gatggggaag	acagogituda	-taggggegge	gateagegee	. agagttgtag	8.2740
agtggtgatg	ttaatggagg	tggtctggtg	ctgatgagga	gaccaacgce	gatgaaggtg	82800
tgattgggag	tggggatggt	agetggtget	gatggaaatg	acadeaceae	tgatgttaat	80860
actgtagcag	agetgaeagt	etcaaaggca	atgitiata	tataggreges	ccaaccatgt	82920
tatotoaatg	gcgatgttac	tggtgtcgtg	gagatgacaa	r tate aategge	aatgttagtg	82990
gtggtggtga	aatgatgaat	geagttggtg	gtgatgacci	. attaatgate	gtagcaaaga	83040
caatgttgtt	gatggagatg	acaacattga	Liggaagtiggt	. yaryyaagag	ttegttgttg	83100
gtgttgatgg	tgatgacagt	ggcaattgag	gtagtgatgg	tearttteet	agcagaggtg	83160
acaaggttga	tggtaatgac	ctttattcat	ctcagageet	. LCattlect	teatecttga	83220
ceefecteat	tratatetad	gacccagaca	gttactcttc	g gaggesteri	. ccagttgaga	83.780
aactggagtg	aactaaacaa	tatecaggae	: cacaacacca	i tritgggaags	g cugulguaga	83340
etggagecca	cactgaaggt	aaggtaggga	ggagtageag	y egecetaaat	caaggtcgtg	83400
ggagettggt	aatgaggaca	ctteaggace	ggaagatgco	acegouggg	taactgggca	83450
aattaattcc	agcaagggat	gtggaacata	acagaattt	, ataatgtac	gggaagttet	83520
tgctatgggc	taatgaatco	tgtetggeda	ı tggctgagaç	y cocctggtti	tcacatttgt	03.20

ctgcgagtga	tgatgacagt	agtgatggtg	atgaggatga	gttggtartg	atggtgagga	83
aaatqctqaq	aatggtaata	gtgatggtga	taaggtggtg	acagttgtta	aaattatggt	83510
gatagetast :	ggtgagggta	gtggttgatg	atggaattgg	tggaaaggtg	gaagcagtaa	837.00
tggtaatgat	gttggtagct	gataaagatg	gtgttggtgg	t,agtggtgat	tgataaagat	837-11
gast gt gat t	atattagtgg	tggtggtgat	gagattetaa	aagetaacte	cctactacct	832.1-1
aaaaat quca	qcaqqaaaaa	aaaatocaga	aat gagtgat	engeactitt	etttecagaa	83330
tig-cala-galatit	attggtgaac	gaactggctt	ceggecagta	egececaya.	tteggetaga	833410
aagagaa sag	cttcgcactg	gacetteaaa	cacagaggta	tgeteccatg	gcaaggaaag	84000
taatgooute	ttdcactcct	cagatggete	tggcattttc	agggarcagt	catgicigat	84960
et.caaqt**cc	acacagggtn	catagcaggo	aggggcagtq	quqqctaata	tececteste	841.00
tataaatugg	gaaactgagg	ctcaatgatg	gttaaggacc	tgotcaaggt	tacatagagg	84190
ggcagtgytg	atgttaatgg	aggtggtgct	gatgagatca	atgttgataa	tggtgtgact	84.340
gggagtgjgg	atggtagbtg	gtgetgatgg	aaatgacact	aticaagtatg	ttagtaccac	84300
agcagaggtg	acgatotoaa	aggcagtgtt	aacatggctg	captaactgt	ctcattggca	84360
atattaatog	tqtqqcagag	atgacagtat	caatggcagt	gttaatgatg	gtggtgaaat	84420
ggtgaatg4g	gttggttttc	taaagtctgt	ggtcaaataa	caggaaaaatg	tgtacttact	84480
ggatotgtac	ttcgtgtcag	acacagcagc	aagtccatta	catgaatgac	cttattaaat	84540
etect otgga	getetttggg	atagggacag	ttctccctat	getteggatg	aggaaactgg	84600
ggtgaattaa	gaggtgaagt	cacttgccca	agtcagacca	ctggtggaag	gcagggctgg	84660
gatgtgattt	gaatttgact	ccaaggctat	ttccagatat	ccattttgtg	getgeeccat	84729
catchettye	aactgttcca	gggggtcccc	accattccac	eccggtgcca	agagaagete	84790
aggtggcatc	tggctttgcc	caggactctt	egggaggete	etgagtette	cagggcagaa	84840
gagetteate	tattctttcc	actgtccctc	teggacetgg	ecaccttete	tettgeetet	84900
cctaggtcat	ccacaactat	ggccatggag	gctacgggct	caccatccac	tggggatgtg	84960
ccctggaggc	agccaagctc	tttgggagaa	tectggaaga	aaagaaattg	tccagaatgc	85000
caccatecca	cctctgaaga	ctccagtgac	tgetgectec	ccccacaaga	actcccttct	85080
cccctcagcc	aatgaatcaa	tgtgctcctt	cataagccat	tgcttctccc	tcacttcttt	85140
cctcaaagaa	gcatgaggtg	agagaaagcc	acaaagtcag	tgcctggaga	agggttcagc	85200
ccaacatggg	geecetetea	tcactgaaat	ccctctacct	tetetgggte	tggcattata	85260
aagaacaget	gaggctgtca	ttccatgagt	cttcagaaga	aaggacagct	cagaaaatca	85320
aagaggccaa	ctgcccagag	ccacagaaaa	tggaggataa	ttgaggctaa	gtaacctgat	85380
tacaagttgt	actaacatat	taaaggttct	gaaaagtcct	gcagcaaaga	caactatotg	85440 85500
atgttgttta	acccagtgct	tgctaaacct	atctggctat	ggaactettt	tgcccagagc	85560
acccatgaat	gccatgacac	aaatctgaga	aaatgctgga	acagattttg	tigiateigi	85620
tgtgtttgtt	gtaggaggtt	atacatacaa	ctggggtgtg	gagggggcag	agaggtgagg	85680
cactgaacta	gtaacacatg	gtgtttgttc	cacatctaga	atteraaatg	gcatcagcta	85740
ttcaccgagt	ggccccatga	gcaccacgta	acctttgagg	aggggccact	ggagggatca	85800
teccacaagg	aaccccttca	tagagaactg	ttttagteca		cttataacag	85860
aatatctgaa	actggagatt	ttttttt	ttttttgaga	caggatetea	ctctgtcacc	85920
caggetggtg	tgcagtggca	tgattttggc	teactgcaac	gagagettaget	caggeteaaa	85980
tgateeteee	teeteageea	ecegagrage	Lgggactaca	agagagtatt	accatgccca	86040
getaattttg	tgtgtgtgtg	tgtgtgtgtg	tgtgttttgt	agagagagaga	ttgtagagac	86100
tagatttagc	catgttgtcc	aggerggegr	cgaactcccg	agaccaageg	atcetectge	86160
ctcagcctcc	aaagtggtgg	gattatagge	acaagecace	at ct cagaag	gaaactgtgg	86320
aattaataga	gaaaaggaat	gesttetete	tagetaga	adadatada	tccaaggttg	86380
aggggeeaca	cotggtgaga	geettetete	at deadaga	tgattgtgg	actctctgca aatgtgctag	86340
gagueccagg	gaggettagg	tagaaaggg	ccartttcct	teccaagato	acccattaat	85490
ctcagetetg	cocceptot	tagadageea	atmmattast	ccatttatca	gagcagcgct	86460
ccastaacct	aataacccat	taattyataa	acgyactaat	accaccacta	gagcagcgct aggtggtaga	865.00
in Laggarico	adtetesee	taaaggegee	cadddacdtt	taagcaatag	aggtggtgga caagaactaa	86550
		cyagicity	cagggacgee	Jaugeaucug	caagaactaa	86192
acticad maag	C.1					

<2105 2
<2115 1573
<2125 DNA
<2135 Homo sapiens</pre>

<2205

-001 -002		UTR .143	3													
	· CI	os 14]	1187													
	> 3 '		1573	3												
	> pc		sigr 1554													
ctto	etec ecet	ca ç	ggaaa	atago	ca to	ectgt	gtco	ccc	gcact	gca	gtto	gtete	gt o	ctctc	caggag ccagca ga gtc	60 120 173
,	.,,,		-	, ,	,										ly Val	
					gcc Ala											221
ctg Leu	cag Gln	cca Pro	ctg Leu 30	gac Asp	ata Ile	aag Lys	gtc Val	tac Tyr 35	gcg Ala	gac Asp	cgc Arg	ttc Phe	acc Thr 40	cca Pro	ctc Leu	269
Thr	Thr	Thr 45	Asp	Val	gct Ala	Ala	Gly 50	Leu	Trp	Gln	Pro	Tyr 55	Leu	Ser	Asp	317
ccc Pro	aac Asn 60	aac Asn	cca Pro	cag Gln	gag Glu	gcg Ala 65	gac Asp	tgg Trp	agc Ser	caa Gln	cag Gln 70	acc Thr	ttt Phe	gac Asp	tat Tyr	365
Leu 75	Leu	Ser	His	Val	cat His 80	Ser	Pro	Asn	Ala	Glu 85	Asn	Leu	Gly	Leu	Phe 90	413
Leu	Ile	Ser	Gly	Tyr 95	aac Asn	Leu	Phe	His	Glu 100	Ala	Ile	Pro	Asp	Pro 105	Ser	461
tgg Trp	aag Lys	gac Asp	aca Thr 110	gtt Val	ctg Leu	gga Gly	ttt Phe	cgg Arg 115	aag Lys	ctg Leu	acc Thr	Pro	aga Arg 120	gag Glu	ctg Leu	509
Asp	Met	Phe 125	Pro	Asp	tac Tyr	Gly	Tyr 130	Gly	Trp	Phe	His	Thr 135	Ser	Leu	Ile	557
ctg Leu	gag Glu 140	gga Gly	aag Lys	aac Asn	tat Tyr	cta Leu 145	cag Gln	tgg Trp	ctg Leu	act Thr	gaa Glu 150	agg Arg	tta Leu	act Thr	gag Glu	605
					ttc Phe 160											653
gca Ala	aga Arg	gaa Glu	ggc Gly	gca Ala 175	gac Asp	gtg Val	att Ile	gtc Val	aac Asn 180	tgc Cys	act Thr	Gly ggg	gta Val	tgg Trp 185	gct Ala	701
					gac Asp											749
					cct Pro											797

~1	0.5				210					215				
cca gag a	ra dide	atc	tac	aat	tee	cca	tac	atc	atc	cca	ggg	acc	cag	845
Pro Glu A	ra Glv	Tle	Tyr	Asn	Ser	Pro	Tyr	Ile	Tle	Fro	Gly	Thr	Gln	
12.0				225					230					
account to a	ct ctt	ggā	qqc	atc	tte	cag	ttg	gga	aac	t gg	agt	gaa	cta	893
Thr Val T	hr Leu	Gly	Gly	He	Phe	Gln	Leu	G!y	Asn	rrp	Ser	Зlu	Seu	
235			240					245					250	
аас наt a	tic caq	gad	cac	aac	acc	att	tgg	gaa	gge	t.gc	tgc	аga	etg	941
As: Asn I	le Gln	Asp	His	Asn	Thr	Ile	Trp	Glu	Gly	Сув	Cys	Arg	Leu	
		250					260					265		
gag ecc a	ca ctg	aag	aat	gca	aga	att	att	ggt	уаа	cga	act	ggc	ttc	989
Glu Pro T	hr Leu	Lys	Asn	Ala	Arg	Ile	Ile	Gly	-31 u	Arg	Thr	Gly	Phe	
	270					275					280			1077
egg eca g	ta cgc	ccc	cag	att	cgg	cta	gaa	аза	gaa	cag	ett	cgc	act	1037
Arg Pro V	al Arg	Pro	31n	Ile		Leu	Glu	Arg	Glu	GIn	Leu	Arg	Thr	
2	35				290					295				1085
gga eet t	ca aac	aca	gag	gtc	atc	cac	aac	t at	ggc	cat	gga	gge	Cac	1000
Gly Pro S	er Asn	Thr	Glu	Val	Ile	His	Asn	Tyr	GIY	His	GIY	GIY	Tyr	
300				305					310			at a		1133
ggg etc a	icc atc	cac	tgg	gga	tgt	gcc	ctg	gag	gca	gcc	aag	Ctc	Dho	1133
Gly Leu T	hr Ile	His		Gly	Cys	Ala	Leu	GIU	Ala	ALA	Lys	Leu	330	
315			320					325				too		1181
ggg aga a	itc ctg	gaa	gaa	aag	aaa	ttg	CCC	aya	Mot	Dro	Dro	cor	Uie	
Gly Arg I	le Leu			Lys	ьys	Leu	340	Arg	Mec	PIO	FIO	345	1110	
		335				0000		2202	acto	cet	tete			1234
ete tgaaq	gactcc	agtg	acty	ct g	CCCC	CCCC	c ac	aaya	accc					
Leu tcagccaat				h a a h	tast		cast	tast	tot	ccct	cac	ttct	ttcctc	1294
tcagccaat aaagaagca	g aato	aatg	itg c	teet	ccat	a ag	tara	tacc	tan	araa	aaa	ttca	occcaa	1354
catggggco	at gage	jegag	lag a	aagc	taca	a ay	acct	tata	taa	atet	aac	atta	t.aaaga	1414
acagetgag	c ctct	catc	ac t	gaaa	tatt	0.00	2000	2200	. cgg	acto	aga	aaat	caaaga	1474
ggccaactg	gg etgt	catt	.cc a	cyay	ataa	c ag	aaya	ttaa	aac	taac	t aa	ccta	attaca	1534
agttgtact	ge ecaç	jayee	ac a	gaaa	tana	2 20	tcct	aca	. 550					1573
agttgtaci	a acat	acce	iaa y	geee	cgua	u ug		500						
<210> 3														
<211> 16:	21													
<211> 10:														
<213 > Hot		ens												
- 225 - 110														
<220>														
<221> 511	UTR													
<222> 1.														
<220>														
<221> CD	S													
<222> 14	4118	7												
<330>														
<221> 3'														
<.222 > 11	8816	91												
<400 > 3												an 21	aggag	€0
tgeastco	ag tcc	gggc	tgg (egga	caga	39 g	etgg	aaaca	a ag	aege Eate	t aat	gadi	-cayyay	12.0
etteccct	ca gga	aata	gca i	cect	gtgt	00 C	egea	ouge:	a yt	ugue	cyyt aas	703	ara oto	173
gtttggta	et tee	ggct:	gat o	уса -	acg :	ugt i	919 9	ana i	yry ,	ut.t.	330 3	g-a s	992 900	- / 5
					Mark.	A more 1	V ⊃ 1 '		Val	Tle (Glv :	Ala 🤈	Gly Val	
				1	Met .	Arg	Val '		Val	Ile	Gly i	Ala	Gly Val	
				I	Met . 1				Val 5	Ile	GIY A	Ala	Jiy Vai 10	221
atc ggg Ile Gly	cta to	c ac	c gc	e et	Met . 1 c ta	c at	с са	t ga	Val 5 g cg	Ile '	c ca	Ala (10 a gtc	221

				15					20					25		
cta	cao	cca	ctg		ata	aad	atc	tac		gac	cqc	ttc	acc	cca	ctc	269
Leu	Gln	Pro	Leu 30	Asp	I l e	Lys	Val	Tyr 35	Ala	Asp	Arg	Pne	Tnr 40	Pro	Leu	
2070	200	acc	gac	ata	act	area	aac		taa	сач	ccc	t.ic	ctt	cet	gac	3:7
Tnr	Thr	Thr 45	Asp	Val	Ala	E.l.A	Gly 50	Leu	Trp	Gln	Pro	Tyr: 55	Leu	ser	qsA	
coc	aac	aac	сев	caq	qaq	qoq	qaz	tgg	agc	caa	cag	acc	ttt	gac	tat	365
Pro	Asn 60	Asn	Pro	Gln	Glu	Ala 65	Asp	Trp	Ser	Gln	Gin 70	Thr	Phe	Asp	Tyr	
Ctc	ctg	age	cat	gtc	cat	tot	CCC	aac	gct	gaa	aac	c,-a	aac.	etg	ttc	4.13
75			His		80					85					90	
cta	atc	tcg	gge	tac	aac	CTC	ttc	cat	gaa	gcc	att	ccg	gac	cct	toc	461
			Gly	95					100					105		
tgg	aag	gac	aca	gtt	ctg	gga	ttt	cgg	aag	ctg	acc	C 30	aga	gag	ctg	509
			Thr 110					115					120			
gat	atg	ttc	cca	gat	tac	ggc	tat	ggc	tgg	ttc	cac	aca	age	cta	att	557
		125	Pro				130					135				
ctg	gag	gga	aag	aac	tat	cta	cag	tgg	ctg	act	gaa	agg	tta	act	gag	605
	140		Lys			145					150					553
agg	gga	gtg	aag	ttc	ttc	cag	cgg	aaa	gtg	gag	tct	ttt	gag	gag	gtg	653
155			Lys		160					165					170	
gca	aga	gaa	ggc	gca	gac	gtg	att	gtc	aac	tgc	act	ggg	gta	t gg	gct	701
			Gly	175					180					185		749
gag	gcg	cta	caa	cga	gac	CCC	ctg	ctg	cag	cca	ggc	cgg	agg	cag	atc	749
			Gln 190					195					200			797
atg	aag	gtg	gac	gcc	cct	tgg	atg	aag	cac	ttc	att	Lou	The	Uie	Nan	191
		205	Asp				21.0					215				845
cca	gag	aga	. ggc	atc	tac	aat	t.cc	ccg	Tac	atc	Tlo	Dro	999 G1v	Thr	cag	045
	220					225					230				Gln	893
aca	gtt	act	ctt	gga	. ggc	atc	ttc	cag	teg	gga	. dat	Tre	. cer	gaa Clu	cta Leu	0,55
		Thr	Leu	GIY	240		PHE	. 611	1760	245	MOI.			010	250	
235		ato		mac.	cac	. aac	acc	att	tac			tac	tac	aga	ctg	941
Asn	Asn	Ile	Glr	Asp 255	His	Asr	Thr	Ile	Trp 260	Glu	Gly	r dys	Cys	Arg 265	Leu	
gag	000	aca	cto	aac	aat	qca	aga	att	att	ggt	gaa	cga	act	ggc	ttc	989
Glu	Pro	Thr	Let 270	Lys	Asr	Ala	Arc	11e 279	: Ile	Gly	Glu	a Arc	Thr 280	: 31y	Phe	
cgo	cea	gta	a ego	ccc	cag	att	: cgg	g cta	gaa	aga	gaa	a cag	ctt	cgo	act	1037
Arg	g Pro	Val 295	Arg	J Pro	-Glr	ı Ile	290	j Lei)	ı Glı	ı Arg	g Gli	1 Glr 195	Leu	ı Arc	Thr	
ानव	a det	tea	a aac	aca	gag	gigto	ato	cac	aac	tat	999	c cat	gga	a ggo	tac	1085
Gly	7 Pro	Sen	Asr	Thi	31t	1 Val 305	Ile	e His	a Ası	тут	: Gly	/ His	GL)	/ Gly	'Tyr	
-330	cto	aco	ato	cac	e tgr	व वव	a tqt	geo	elete	939	g gca	a geo	aaq	g etc	ttt	1133
Gly	Let	ı Thi	r Ile	e His	s Tri	51 ₃	Z Cys	3 Ā1a	a Lei	1 371	ı Ala	a Ala	Lys	s Leι	ı Phe	
315	5				320)				325	5				330	1101
999	g aga	a ato	e etg	g gaa	a gaa	a aag	g aaa	a tto	g to	e aga	a ato	g dea	a cca	a too	e cac	1181

Gly Arg Ile Leu Glu Glu Lys Lys Leu Ser Arg Met Pro Pro Ser His	
335 340 345 ota tgaagactoa agtgactgot gootooccoo acaagaacto cottotoocco	1234
eta tgaagactea agtgaetget geoteeeee acaagaaete eesteeees Leu	
trageraatg aatraatgtg ctcettcata agesattget tetssetsac ttettteete	1294
anisaniagoat gaggtgagag anagooncaa agtongtgoo tggnganggg ttongoonaa	1354
catagagade eteteateap tgaaateeet etacettete tgggtetgge attataaaga	1414
acagetgagg etgteattee atgagtette agaagaaagg acageteaga aaateaaaga	1534
goccaactgo ccagagecac agaaaatgga ggataattga ggctaagtaa cetgattaca	1594
agitigineta anatarthaa ggittetgaaa agiteetgeag baaagacaab tatetgatgi totttaacoo agigottgot aaacotatet ggetatggaa etettitigee eagageacee	1554
atgaatyoca tgacacaaat otgagaaaat gotggaa	1691
4.96404999	
<210> 4	
<011> 2620	
<12> DNA	
<.ll> Homo sapiens	
<1.70>	
<221> S'UTR	
<.022> 11155	
<000> <001> CDS	
<2225 CDS <2225 11561818	
1.227 223011201	
<220>	
<_221> 3 'UTR	
<202> 18192620	
<400> 4	
gaaaccacg cageeteetg gattetteee egteeteee tetgteetgg ggetgtgace	60
tretrecatgt tatteacagg qteteaqeac gatteatete aaageagega aacaageact	120
guesteagaa gaagcaatat taaaacagtt acaactcate tagegcacag acacccaact	180 240
gacaccetgt tectecagte ataacaacaa etacagettt gattgaacaa gagactgagt	300
trggtaactt teteetaata aaaagateae tgaetatgga etgettetgg tggggttaeg aaacegeaae eteatgtgee tgeattteet gaaaagaeat tttgatgtag gaagggeetg	360
gagtoctget gettgegtet etgggataeg ggagcaaaga gecaegeate eteatggeee	420
acadagged cacciccagt cictectiqq cotcatetee ccagegiest ggaatggeat	480
cagactages cagagages statestata estetesti ecesteagga getgecagge	540
transacce caccycage caggestaca gtgseccatg gaacgteetg acceteece	600 660
agggtggcag caggaagaag gaagaaaggg gatcetetee agetggccag agagacagae	720
ettettgtge teateaacce tecaagaatg cetgecetee etcetteece caaggeetgt ceacagggge ttgagateag ceagaaaagt caggeaactt tteagggact gggagegagg	780
tetocoggee gggeotgggt coagtotetg tgggeagtge agtgeegage eccaececte	840
aageegtgee etgteeatag etecagaett tgaecetgea etecagteeg ggetggegga	900
ragagggetg gaaacaagac getecagaat caggagette eesteaggaa atageateet	9-50
Argregoed acticagtty totagtetet coagoagttt ggtacttoog atgaagaget	1020
tgtgtctcca gaggcaaagt atgggggaag agggaagaga gaagaccaag ggtccctgag	1080
aggggetgte cectaagece cagtatecaa getegggete gaagetggaa ggagaattge	1191
ctagaggetg etgea atg egt gtg gtg gtg att gga gea gga gte ate ggg Met Arg Val Val Val Ile Gly Ala Gly Val Ile Gly	1101
1 5 10	
eta toc acc dec ete tac atc cat dad ede tac cac tea gite etg cag	1239
Leu Ser Thr Ala Leu Cys Ile His Glu Arg Tyr His Ser Val Leu Gin	
15 20 25	1287
cca ctg gac ata aag gtc tac gcg gac cgc ttc acc cca ctc acc acc Pro Leu Asp Ile Lys Val Tyr Ala Asp Arg Phe Thr Pro Leu Thr Thr	1.00
Pro Leu Asp Tie Lys Vai Tyr Aid Asp Aig File Till Filo Bed III.	
20	

														ccc		1335
Thr 45	Asp	Val	Ala	ALa	GIY 50	Leu	Trp	GIN	Pro	Tyr 55	Leti	ser	Asp	Pro	60·	
aac	oca	cag	gag	gcg	gae	tgg	age	caa	cag	acc	ttt	gac	tat	ctc	ctg	1383
AEn	Pro	-31 n	Glu	Ala 155	Asp	Trp	Ser	Gln	Gln 70	Thr	Pne	Asp	Tyr	Leu 75	Leu	
age:	cat	gtc	cat	tet	CCC	aac	gct	gaa	aac	c.g	ggc	ctg	ttc	cta	atc	1431
			80					85					90	Leu		
teg	ggc	tac	33C	ctc	tte	cat	gaa	gcc	att	ceg	gac	cct	tee	tgg	aarg	1479
		95					100					105		Trp		
gac	аса	gtt	ctg	gga	t.t.t.	cgg	aag	ctg	acc.	0.00	aga	gag	ctg	gat	atg	1527
	110					115					120			Азр		
tte	cca	gat	tac	ggc	ta:	gge	tgg	ttc	cac	903	age	ota	att	ctg	gag	1575
Phe 125	Pro	Asp	Tyr	Gly	Tyr 130	Gly	Trp	Phe	His	Thr 135	Ser	Lea	ite	Leu	140	
	aaq	aac	tat	cta		tgg	ctg	act	gaa	agg	t t a	act	gag	agg	gga	1623
Gly	Lys	Asn	Туг	Leu 145	Gln	Trp	Leu	Thr	Glu 150	Arg	Leu	Thr	Glu	Arg 155	Gly	
gtg	aag	ttc	tte	cag	cgg	aaa	gtg	gag	tct	ttt	gag	gag	gtg	gca	aga	1671
			160					165					170	Ala		
gaa	ggc	gca	gac	gtg	att	gtc	aac	tgc	act	999	gta	tgg	gct	999	gcg	1719
G! u	GIY	A1 a	Asp	Val	TIe	vai	180	cys	rnr	GIY	vaı	185	Ald	Gly	Ala	
ct.a	caa	cga	gac	ccc	ctg	ctg	cag	cca	ggc	cgg	ggg	cag	atc	atg	aag	1767
Leu	Gln 190	Arg	Asp	Pro	Leu	Leu 195	Gln	Pro	Gly	Arg	Gly 200	Gln	Ile	Met	Lys	
														ctg		1815
	Pro	Asp	Ser	Tyr	Ser 210	Trp	Arg	His	Leu	Pro 215	Val	GLY	Lys	Leu	220	
205	acta	aac	aata	tcca		ccac	aaca:	с са	ttta		aac	tact	яса і	gact	ggagee	1875
cac	actq	aaq	aatq	caaq	aa t	tatt	gata	a ac	gaac	tggc	ttc	cggc	cag	tacg	ccccca	1935
qat	t.caa	cta	gaaa	qaqa	ac a	gett	cgca	c tg	gacc	ttca	aac	acag	agg	tcat	ccacaa	1995
cta	tggc	cat	ggag	gcta	cg g	gete	acca	t cc	actg	ggga	tgt	gccc	tgg .	aggc	agccaa	2055
get	cttt	ggg	agaa	tcct	gg a	agaa	aaga	a at	tgtc	caga	atg	ccac	cat ·	ccca	cetetg	2115
															aatgaa	2175
															gcatga	2235
gyt	gaga	gaa	agcc	acaa	ag t	cagt	geet	g ga	gaag	ggtt	cag	ccca	aca	tggg	geceet	2295
ctc	atca	ctg	aaat	ccct	ct a	cett	ctct	9 99	etes	geat	Lat.	aaay	aac	aget	gagget etgeee	2415
															actaac	2475
															acccag	2535
															gccatg	2595
			gaga						,						_	2620
			-													

```
<010> 5
<011> 1576
<012> DNA
```

<213> Homo sapiens

<220> <221> 5'UTR <222> 1 .143

<320>

<221> CDS

<2225 144..380

<11110 -<11111- 3'UTR

<33.1 - 381...1576</p>

<400 - 5

al Val Ile Gly Ala Gly Val 5 10 1.30

173

221

259

317

355

+117

477 537

597

657

717

777

837

897

957

1017

1077

1137

1197 1257

1317

1377

1437

1497 1557

1576

auc ggg etg toc ace gcc sto tgo ato cat gag ege tac sac toa gto The dly Leu Ser Thr Ala Leu Cys Ile His Glu Arg Tyr His Ser Val 15 20 25

ctj cag cca ctg gac ata aag gto tac gcg gac cgc ttc acc cca ctc Leu Gln Pro Leu Asp Ile Lys Val Tyr Ala Asp Arg Phe Thr Pro Leu 30 35 40

acc acc acc gac ggg gct gcc ggc ctc tgg cag ccc tac ctt tct gac Thr Thr Asp Val Ala Ala Gly Leu Trp Gln Pro Tyr Leu Ser Asp $\frac{45}{50}$

coc aac aac coa cag gag gog acc ctt cot gga agg aca cag tto tgg Pro Asn Asn Pro Gln Glu Ala Thr Leu Pro Gly Arg Thr Gln Phe Trp

gat ttc gga agc tgacccccag agagctggat atgttcccag attacggcta

75
tagactigatic cacacaagee taatictigga gagaaagaac tatetacagi gactgactga
aagitaact gagaagaggag tgaagitett ecaacagagaaa gidgaqitett tidaagaagi
gacajagana gagacgagaag tgatigicaa etgaactgag gatagageta gacagagacee etgetgaag caagagacatea atetecace atgaccagag gaagagatat tacaatice egiaacatag
cacagagace cagacagita etettagaag cateticeas tigagaaact gaagtgaact

aacaatate caggaccaca acaccatttg ggaaggctgc tgcagactgg agcccacact gaagaattgca agaattattg gtgaacgaac tgcatcagacg cagtacggc cccagattcg gcatgaaaga gaacagcttc gcaattggac ttcaaacaca gaggtcatca cacactatgg ccatggaggc tacgggctca ccatccactg gggatgtgcc ctggaggcag ccaagctett tgggagaat ctgcagcagactg ctgcatcaccact cagaattgcc ccatccaccac tctgaagact tgccagtgactg ctgcctccc ccacaagaac tcccttctcc cctcagccaa tgaatcaatg tgctccttca taagcattg cttctccct acttettcc ctcaagcaca tgaatcaatg agaaagccac aaagcagtg cctggagaag ggtcagcca acatggggc ccctctcatcactgaacaccc cctctcactc cctctaactcactc tctggatcag agctcaatca actgagac cccctctatt

ccatgagtet teagaagaaa ggacagetea gaaaateaaa gaggecaaet geccagagec acagaaaatg gaagataatt gaggetaagt aacetgatta caagttigtae taacatatta aaggttetga aaagteetge agcaaagaca actatetgat gitgittaac ecagtgetig etaaacetat etegetatgg aactetitig eccagageac ecatgaatge catgacacaa attigagaaa atgetggaa

<210> 6 <211> 1345

<212> DNA

<213 > Homo sapiens

<:::0>
<2:01> 5'UTR

<222> 1..113

<220>

-222 · 114..959

4.1.10 -in:1 - 3 'UTR SHEET - 960..1345

e220 -

-dd:1 - polyA_signal -dd: -13:1..1326

<400 → €	
gwaacccang cagoddootg gattetteec egteeeteec tetgtootgg ggetgtgacc	60
tectocatijt tattoacagg gtotoagoac gattoatoto aaaggotgot goa atg Met 1	116
ogt gtg gtg gtg att gga gca gga gtc atc ggg ctg toc acc gcc ctc Arg Val Val Val Ile Gly Ala Gly Val Ile Gly Leu Ser Thr Ala Leu	164
tge ato dat gag oge tad dad tea gid otg dag oda otg gad ata aag Cys Ile His Glu Arg Tyr His Ser Val Leu Glu Pro Leu Asp Ile Lys 25	210
gto tac geg gap ego tto acc eca etc acc acc acc gap geg get gec Val Tyr Ala Asp Arg Phe Thr Pro Leu Thr Thr Thr Asp Val Ala Ala 35	260
gge etc tgg dag dec tad ett tet gad dec aad aad dea dag gag geg Gly Leu Trp Gln Pro Tyr Leu Ser Asp Pro Asn Asn Pro Gln Glu Ala 50 55 60 65	308
gao tgg ago daa dag ado tit gao tat oto etg ago dat gto dat tot Asp Trp Ser Gln Gln Thr Phe Asp Tyr Leu Leu Ser His Val His Ser 70 75 80	356
occ aac get gaa aac etg gge etg the eta ate teg gge tac aac etc Pro Asn Ala dlu Asn Leu Gly Leu Phe Leu Ile Ser Gly Tyr Asn Leu 85 95	404
tte cat gaa goc att eeg gtg gea aga gaa gge gea gae gtg att gte Phe His Glu Ala Ile Pro Val Ala Arg Glu Gly Ala Asp Val Ile Val 100 105 110	452
aac tgc act ggg gta tgg gct ggg gcg cta caa cga gac ccc ctg ctg Asn Cys Thr Gly Val Trp Ala Gly Ala Leu Gln Arg Asp Pro Leu Leu 115 120	500
cag cca ggc cgg ggg cag atc atg aag gtg gac gcc cct tgg atg aag Gln Pro Gly Arg Gly Gln Ile Met Lys Val Asp Ala Pro Trp Met Lys 130 145	548
cac tto att etc acc cat gac eca gag aga ggc atc tac aat too eeg His Phe Ile Leu Thr His Asp Pro Glu Arg Gly Ile Tyr Asn Ser Pro 150 155 160	596
tac atc acc agg acc dag aca gtt act ctt gga ggc atc ttc dag Tyr Ile Ile Pro Gly Thr Gln Thr Val Thr Leu Gly Gly Ile Phe Gln 165	544
tig gga aac igg agi gaa eta aac aai atc cag gac cac aac acc att Leu Gly Asn Trp Ser Glu Leu Asn Asn Ile Gln Asp His Asn Thr Ile 180 195	693
Egg gaalege tge tge aga etg gag doe ada etg aag aat gea aga att Trp Glu dly Cys Cys Arg Leu Glu Pro Thr Leu Lys Asn Ala Arg Ile 195 200 205	740
att ggt gaa oga act ggo tto egg oca gta ego oco oag att egg ota fle Gly Glu Arg Thr Gly Phe Arg Pro Val Arg Pro Gln fle Arg Leu 210 225	783
gaa aga gaa cag ott ogo abt gga oot toa aac aca gag gto ato bac Glu Arg Glu Gln Leu Arg Thr Gly Pro Ser Asn Thr Glu Val Ile His	836

			240	
236		235	240	884
aac tat ggc cat gga Asn Tyr Gly His Gly	. gge tae ggg c	on Thr The His	Trn Glv Cvs Ala	00.1
Ash Tyr Giy His Giy	2 2	50	255	
ctd dad aca dec aa-	ricte tet gag a	ga atc ctg gas	gaa aag aaa ttg	932
Leu Glu Ala Ala Ly:	Leu Phe Gly A	rg Ile Leu Glu	Glu Lys Lys Leu	
260	265		270	
tee aga atg eea ee	i tee dad ete t	gaagacted agtg	actget geeteecee	986
Ser Arg Met Pro Pro	Ser His Leu /90			
275 acaagaacte cettetes	ree teagreaate	aarcaargro cto	cttdata agcdattgct	1046
teteceteac tictific	rto aaagaagcat	gaggtgagag aaa	gecaeaa agteagtgee -	1106
togagaaggg ttcagco	caa catuuqqqqqq	ctctcatcac tga	astecct ctaccttctc	1155
transferage attatas	aga acagetgagg	ctgtcattcc atg	agtotto agragasagg	1226 1286
acageteaga asateas	aga ggccaactgc	ccagagecae aga	aaatgga ggataattga	1345
ggctaagtaa cctgatt.	aca agtigiacia	acatattasa ggt	ceegaaa ageeeegea	1313
<210> 7				
<011> 347				
<212> PRT				
<213> Homo sapiens				
<400 > 7 Met Arg Val Val Va	1 The Gly Ala G	iv Val Ile Glv	Leu Ser Thr Ala	
1 5		10	15	
Leu Cys Ile His Gl	u Arg Tyr His S	Ser Val Leu Gln	Pro Leu Asp Ile	
20	2	25	30	
Lys Val Tyr Ala As		Pro Leu Thr Thr	Thr Asp Val Ala	
35	40	les les Ero les	45 Aen Pro Gla Glu	
Ala Gly Leu Trp Gl	n Fro Tyr Deu s 55	ser Asp FIO Asi	ASH FIO OIN OIG	
Ala Asp Trp Ser Gl	n Gln Thr Phe 1		Ser His Val His	
65	70	75	8.0	
Ser Pro Asn Ala Gl	u Asn Leu Gly I	Leu Phe Leu Ile	Ser Gly Tyr Asn	
85		90 	95 • Non The Val Leu	
Leu Phe His Glu Al		rro ser irp bys 105	110	
100 Gly Phe Arg Lys Le				
115	120		125	
Gly Tyr Gly Trp Ph	e His Thr Ser	Leu Ile Leu Glu	ı Gly Lys Asn Tyr	
130	135	140)	
Leu Gln Trp Leu Th		Thr Glu Arg Gly	Val Lys Phe Phe	
145 Gln Arg Lys Val Gl	150	Clu Val Ala Arc		
GIN Arg Lys val Gi		170	175	
Val Ile Val Asn Cy	s Thr Gly Val '		a Leu Gln Arg Asp	
1.80		185	190	
Pro Leu Leu Gln Pr		Gln Ile Met Lys	s Val Asp Ala Pro	
195	200		205	
Trp Met Lys His Ph	ne Ile Leu Thr 215	His Asp Pro GII	n Arg Siy iie iyi	
210 Asn Ser Pro Tyr I				
3.25	230	235	240	
Ile Phe Gln Leu G.	Ly Asn Trp Ser		n Ile Gln Asp His	
2.	15	250	255	
Asn Thr Ile Trp G	lu Gly Cys Cys	Arg Leu Glu Pr	o Thr Leu Lys Asn 270	
260 Ala Arg Ile Ile G		265 Gly Phe Arg Pr		
Ala Arg ile ile G. 275	1y Giu Arg Ini	orl the practi	285	
2.3	200			

Ile Arg Leu Glu Arg Glu Gln Leu Arg Thr Gly Pro Ser Asn Thr Glu 295 3.00 Val Ile His Asn Tyr Gly His Gly Gly Tyr Gly Leu Thr Ile His Trp 310 315 Gly Cys Ala Leu Glu Ala Ala Lys Leu Phe Sly Arg Ile Leu Glu Glu 325 330 Lys Lys Leu Ser Arg Met Pro Pro Ser His Leu

<110 - 8 <1:11 > 220 <3:12 > PRT

<213 > Homo sapiens

<400 > 8 Met Arg Val Val Val Ile Gly Ala Gly Val Ile Gly Leu Ser Thr Ala 10 Leu Cys Ile His Glu Arg Tyr His Ser Val Leu Gln Pro Leu Asp Ile 3.0 25 20 Lys Val Tyr Ala Asp Arg Phe Thr Pro Leu Thr Thr Thr Asp Val Ala 45 4.0 Ala Gly Leu Trp Gln Pro Tyr Leu Ser Asp Pro Asn Asn Pro Gln Glu 55 60 Ala Asp Trp Ser Gln Gln Thr Phe Asp Tyr Leu Leu Ser His Val His 75 70 Ser Pro Asn Ala Glu Asn Leu Gly Leu Phe Leu Ile Ser Gly Tyr Asn 90 85 Leu Phe His Glu Ala Ile Pro Asp Pro Ser Trp Lys Asp Thr Val Leu 110 105 100 Gly Phe Arg Lys Leu Thr Pro Arg Glu Leu Asp Met Phe Pro Asp Tyr 120 125 Gly Tyr Gly Trp Phe His Thr Ser Leu Ile Leu Glu Gly Lys Asn Tyr 135 140 Leu Gln Trp Leu Thr Glu Arg Leu Thr Glu Arg Gly Val Lys Phe Phe 150 155 Gln Arg Lys Val Glu Ser Phe Glu Glu Val Ala Arg Glu Gly Ala Asp 170 165 Val Ile Val Asn Cys Thr Gly Val Trp Ala Gly Ala Leu Gln Arg Asp 190 185 180 Pro Leu Leu Gln Pro Gly Arg Gly Gln Ile Met Lys Asp Pro Asp Ser 200 Tyr Ser Trp Arg His Leu Pro Val Gly Lys Leu Glu 215 210

<210> 9 <211> 78 <212> PRT <213> Homo sapiens

<400 > 9 Met Arg Val Val Val Ile Gly Ala Gly Val Ile Gly Leu Ser Thr Ala 1.0 Leu Cys Ile His Glu Arg Tyr His Ser Val Leu Gln Pro Leu Asp Ile 2.0 25 Lys Val Tyr Ala Asp Arg Phe Thr Pro Leu Thr Thr Thr Asp Val Ala 40 35 Ala Gly Leu Trp Gln Pro Tyr Leu Ser Asp Pro Asn Asn Pro Gln Glu 55 Ala Thr Leu Pro Gly Arg Thr Gln Phe Trp Asp Phe Gly Ser

<2:10> 10 <211. 281 <212 - PRT <213 - Homo sapiens <400 - 10 Met Arg Val Val Val Ile Gly Ala Gly Val Ile Gly Leu Ser Thr Ala Leu Cys Ile His Glu Arg Tyr His Ser Val Leu Gln Pro Leu Asp Ile 20 Lys Val Tyr Ala Asp Arg Phe Thr Pro Leu Thr Thr Thr Asp Val Ala

2.5 4.0 Ala Gly Leu Trp Gln Pro Tyr Leu Ser Asp Pro Asn Asn Pro Gln Glu 60 55

10

30

Ala Asp Trp Ser Gln Gln Thr Phe Asp Tyr Leu Leu Ser His Val His 75 70 Ser Pro Asn Ala Glu Asn Leu Gly Leu Phe Leu Ile Ser Gly Tyr Asn 90

85 Leu Phe His Glu Ala Ile Pro Val Ala Arg Glu Gly Ala Asp Val Ile 105 110 100 Val Asn Cys Thr Gly Val Trp Ala Gly Ala Leu Gln Arg Asp Pro Leu

125 115 120 Leu 3ln Pro Gly Arg Gly Gln Ile Met Lys Val Asp Ala Pro Trp Met 140

130 135 Lys His Phe Ile Leu Thr His Asp Pro Glu Arg Gly Ile Tyr Asn Ser 155 150

145 Pro Tyr Ile Ile Pro Gly Thr Gln Thr Val Thr Leu Gly Gly Ile Phe 170 165

Gln Leu Gly Asn Trp Ser Glu Leu Asn Asn Ile Gln Asp His Asn Thr 180 185 lle Trp Glu Gly Cys Cys Arg Leu Glu Pro Thr Leu Lys Asn Ala Arg

205 195 200 Ile Ile Gly Glu Arg Thr Gly Phe Arg Pro Val Arg Pro Gln Ile Arg 220 215 210

Leu Glu Arg Glu Gln Leu Arg Thr Gly Pro Ser Asn Thr Glu Val Ile 235 230

His Asn Tyr Gly His Gly Gly Tyr Gly Leu Thr Ile His Trp Gly Cys 250 245 Ala Leu Glu Ala Ala Lys Leu Phe Gly Arg 1le Leu Glu Glu Lys Lys

265 260 Leu Ser Arg Met Pro Pro Ser His Leu

275

<0.10> 11

<111> 456 <.:12> DNA

<213> Homo sapiens

< 220>

<201> allele

+323> 152

.333> 99-16105-152 : polymorphic base A or G

<::21> misc binding

<232> 140..164

.223> 99-16105-152.probe

```
cr::1 * primer_bind
...... 133...151
4.23 - 99-16105-152.mis
<221 - primer_bind</pre>
ad20 x 153..171
يوري: 94-16100 -152 mis complement
<2.10 -
-cults primer_bind
<32.5 1..19
<2004 - 99-16105.pu
<2200 ×
<_21 > primer_bind
<222> 437..456
<223 . 99-16105.rp complement
<400 > 11
egetétgitg tattettigt tatttateea tittgecaaa tiatetgeaa giagaaatat
                                                                         60
                                                                        120
cgsaataaga agetetttag caatttactt tggatattgg ttttettttg aaggacagtt
attaaaatag ettgtaggat tactcatttt ertttttett etttttaaat ataaagcaat
                                                                        180
greateactt tittecetgt attatatite teeteaataa tigatatget acattaaagg
                                                                        240
aacacaaaat ggtottaatt atgcaataat gatcaaggca aagagtgttt cotgggaact
                                                                        300
aatggttgcc tgagaggagg tgatggcttg aggtccagct ggttattaag ccgcaggaaa
                                                                        360
tgctgcaggc caagatttgt attatttete tgagatgaaa atgaacccaa aaaaaggcaa
                                                                        420
                                                                        456
aatgggtttt tetecactaa tgggtaaaat gaacte
<210> 12
<211> 463
<212> DNA
<213> Homo sapiens
< 230>
<221> allele
<222> 215
<223> 99-5919-215 : polymorphic base A or G
<220>
<021> misc_binding
<222> 203..227
4227 99-5919-215.probe
 <220>
 <221> primer bind
 -2225 196..214
 :227> 99-5919-215.mis
 <220>
 -11.1> primer bind
 ardd> 216. 234
 :223> 99-5919-215.mis complement
 <321> primer_bind
```

<222> 11..29

```
8223 99-5919.pu
41.20
22.1 · primer bind
445..465
3.3.93-5919.rp complement
<400 - 13
tinetetiga etacageaat geagatttea attetgeeat tgaatteesa gacatatteg
time joesat titleatoccc caccaccety monthfact egigitaact iqtittecig
activacajaa atcacctttt cotgtataca tttttaggat gtcagacttt attctaatga
titoroctag tigococcca aaattgtatt ctacrgtgtg attttaaagc tgaattttca
aquiquiant teatatetat attiticacaa getittette tatgaatgit attgicaget
giranggigt gagatggiac tigatactac attetiteca agetgitgee igaateggit
tammacaaag teattactag getgtaaact gttgetetge aaaattgage ageaegtatt
tammeactea tacttettag etetecaaca etttgagter ata
<210 > 13
<.:11> 742
<212 > DNA
<21 > Homo sapiens
<....0>
<.221 > 5 UTR
<220> 1..46
<220>
<221 > CDS
<12.7> 47..508
<220>
<221> 3'UTR
<222> E09..742
 <220>
 <221> polyA_signal
 <222> 718..723
 <220>
 <221> allele
 <223> 8-135-112 : polymorphic base C or T
 <220>
 allele
 Jan. 75
 ..... 8-135-166 : polymorphic base A or C
 < 320 >
 -221> allele
 JP225 135
 .223> 99-16038-118 : polymorphic base A or G
 1.1> allele
 - 2.02 > 194
 . 2.3. 8-137-152 : polymorphic base G or T
```

180

240

300

420

<2205

```
<221- allele
<... 2 1 224
.... 8-137-182 : polymorphic base A or G
.....allele
5. . . . . 390
:...3: 8-130-220 : polymorphic base A or C
<.20%
allele
<202: 406
:223 - 8-130-236 : polymorphic base A or G
<22205
<.::1. allele</pre>
c. . .t - 578
<223 - 8-131-199 : polymorphic base A or C</pre>
<229 %
<d::1 · allele</pre>
<222.15 641
<223 - 8-132-97 : polymorphic base C or T
<....0 >
<2271> allele
<2.02 > 708
<223% 8-132-164 : polymorphic base C or T
<220 >
<2215 allele
<222 > 723
<223 > 8-132-179 : polymorphic base A or T
<220 >
<221> VARIANT
<222> 75
<223 > Xaa=Ser or Tyr
<220>
<221 > VARIANT
<222> 135
<223 > Xaa=Lys or Arg
<220>
<221 > VARIANT
 <222> 194
 <013 > Maa=Glu or Stop
< 220 >
 <221> VARIANT
 <222> 224
 <223> Maa=Gly or Ard
< 220>
 <.l.:1> VARIANT
 <222> 390
 <.213> Xaa=Ala or Asp
```

<400	> 13	3														
teat	ct.ct	ge t	tcad	aatç	go ye	gatga	attta	a gct	ggga	agga	Caca					5.5
												1		Seu (3iu	
2.10	mt or	25.0	care to	aat	ant	tmt	ato	0.00	att	tta	ада			+ a+	2.7.2	103
											Arg					****
	5					10					15					
											age					151
	Gly	Lys	Ile	Tyr		Ile	Gly	Phe	Gln		ser	Ile	Leu	Leu		
20					25					30					35	
											gag Glu					199
Liyes	Set	GIU	ASII	40	ьец	ASII	ser	116	45	шуз	1310	1111	'31 U	50	GLY	
ada	gad	acq	ata		agg	aaa	gaa	rga		aaq	ада	agg	cat		qac	247
Arg	Glu	Thr	Val	Thr	Arg	Lys	Glu	Xaa	Trp	Lys	Arg	Arg	His	Glu	Asp	
			55					60					65			
											ада					295
G:Y	TY1	Leu 70	Glu	Met	Ala	Gln	Arg 75	His	Leu	Gln	Arg	Ser 80	Leu	ys	Pro	
*	ato		t 2.2		aat	220		tat	0.22	0.30	ctt		an a	orta	200	343
											Leu					5
	85		.,.			90		.,.			95					
											tat					391
	His	Val	Gly	Lys		Phe	Met	Ala	Arg		Tyr	Glu	Phe	Leu		
100					105					110					115	420
											gaa Glu					439
. yı	GIU	мта	ser	120	мыр	MIG	MIG	13111	125	Бец	Siu	nry	Mec	130	1111	
tac	aac	tac	aac		caa	aaa	qac	caq		tac	aac	cac	aaq		ata	487
											Asn					
			135					140					145			
						tga	gttt	gga i	agcaç	gatto	et to	ccca	geca	а		535
Thi	Ser	Thr 150	Lys	Ala	GIU											
teet	toto		raca:	at at a	aar ta	rtaa.	caa	c ati	atte	acta	gamt	tota	aca (acto	etgtgt	595
															cagtaa	655
															ctcttt	715
ttat	taav	wtg 1	tgcti	tcaa	gt ti	ttaad	ca									742
2.2.6																
)> 14 L> 15															
	:> PI															
		omo :	sapi	ens												
<2224																
		ARIA	NT													
) > 1/	u aa=Si	ar o	r max	~											
*		aa-Di	SI 0.	L Ly.												
411110	1>															
<22	: > V	ARIA	NT													
	2 > 3															
will.	3 > X	aa=L	ys o	r Ar	3											
s220	1-															
		ARIA	NT													
	2> 5															
<22	3 > X	aa=G	lu o	r St	op											

```
-::: VARIANT
a...: 60
a. 24- Kaa=G.y or Arg
....! · VARIANT
10200-115
(2.. % Xaa=Ala or Asp
32.00
-2001 - SITE
4222 + 63..64
2233 basic protease cleavage site
<221> SITE
<222 > 122 . . 123
<223, basic protease cleavage site
<2.10 >
<221> DISULFID
<322> 132..142
<220>
<221> PEPTIDE
<0.22> 1..64
< 22.00 >
<201> PEPTIDE
<222> 65..123
<220>
<221> PEPTIDE
<232> 124..153
<400> 14
Met Leu Glu Lys Leu Met Gly Ala Asp Xaa Leu Gln Leu Phe Arg Ser
1
                                     1.0
Arg Tyr Thr Leu Gly Lys Ile Tyr Phe Ile Gly Phe Gln Xaa Ser Ile
             20
                                  25
Leu Leu Ser Lys Ser Glu Asn Ser Leu Asn Ser Ile Ala Lys Glu Thr
         35
                             40
Glu Xaa Gly Arg Glu Thr Val Thr Arg Lys Glu Xaa Trp Lys Arg Arg
                         55
                                              60
His Glu Asp Gly Tyr Leu Glu Met Ala Gln Arg His Leu Gln Arg Ser
                     70
                                          75
Leu Cys Pro Trp Val Ser Tyr Leu Pro Gln Pro Tyr Ala Glu Leu Glu
                                      90
                 85
Gin Val Ser Ser His Val Gly Lys Val Phe Met Ala Arg Asn Tyr Glu
                                  105
             100
 Pho Leu Xaa Tyr Glu Ala Ser Lys Asp Arg Arg Gln Pro Leu Glu Arg
                                                  125
                              120
         115
 Met Trp Thr Cys Asn Tyr Asn Gln Gln Lys Asp Gln Ser Cys Asn His
                          135
    130
 Ive Glu Ile Thr Ser Thr Lys Ala Glu
                     150
 1.45
 <210> 15
```

<pre><311= 476 dB12> EMA dB14> Homo sapiens</pre>	
-400> 15 out gag gad ggd tat ttg gam atg gdm bag gag dat ttm bag agm tom H:s Glu Asp Gly Tyr Leu Glu Met Alm Gln Arg His Leu Gln Arg Ser 1 5 10	48
traitgt oct tag gto tot tac ott oct oag occ tat gea gag ott gaa L-u Cys Pro Trp Val Ser Tyr Leu Pro Gln Pro Tyr Ala Glu Leu Glu 20 25	96
gaa gta ago ago cat gtt gga aaa gto tto atg goa aga ago tat gag Glu Val Ser Ser His Val Gly Lys Val Phe Met Ala Arg Asn Tyr Glu 45	144
tte ett ged tat gag god tot aag gad ogd aag dat eta gaa oga. Phe Leu Ala Tyr Glu Ala Ser Lys Asp Arg Arg Gln Pro Leu Glu Arg. 50	192
and tags acc tags had tags aad dag daa aaa gad dag tag tag aad dad Met Trp Thr Cys Asn Tyr Asn Gln Gln Lys Asp Gln Ser Cys Asn His 55 70 75 90	240
aag gaa ata act tot acc aaa got gaa tgagtttgga agcagattot Lys Glu He Thr Ser Thr Lys Ala Glu 85	287
tocoagocaa toottotgat gacaatgtag totggocaac acottoactg gactotgacg gactotgtgt otgggaccca gotgatuaca ogtggtgatg ggattgtatt tgcaactoto tggtoagtaa gtgataaaat gocatttota tgcacccaco tggcotgtgt gactgggaga atototott	347 407 467 476
<210> 16 <211> 89 <213> FRT <213> Homo sapiens	
<400> 16 His Glu Asp Gly Tyr Leu Glu Met Ala Gln Arg His Leu Gln Arg Ser 1 5 10 15	
Leu Cys Pro Trp Val Ser Tyr Leu Pro Gln Pro Tyr Ala Glu Leu Glu 20 25 30	
Glu Val Ser Ser His Val Gly Lys Val Phe Met Ala Arg Asn Tyr Glu 35 40 45	
Phe Leu Ala Tyr Glu Ala Ser Lys Asp Arg Arg Gln Pro Leu Glu Arg 50 55 60	
Mot Trp Thr Cys Asn Tyr Asn Gln Gln Lys Asp Gln Ser Cys Asn His 65 70 75 80	
Lys Glu Ile Thr Ser Thr Lys Ala Glu 85	
<210> 17 <211> 1633 <211> DNA <213> Homo sapiens	
<400> 17 ttggggtcoa ttgcaacccj aggcgagact agagttcoca agcgagaagg gaagaggcag tggggtgcacg tggaaggcgg acagagggct ggaaacaaga cgctccagaa tcaggagctt cocctcaagaa aatagcatcc tgtgtcoccg cactgcagtt gctggtcot tcagcagtt tggtacttcc ggctgctgca atg cgt gtg gtg gtg att gga gca gga gtc atc Met Arg Val Val Ile Gly Ala Gly Val Ile 1 5 10	50 120 180 233

Gly	Leu	Ser	Thr	Ala	Leu	Cys	He	His 20	Glu	Arg	Tyr	cac His	Ser 25	Val	Leu	281
Gln	Pro	Leu 30	His	Ile	Lys	Vil	Tyr 35	Ala	Asp	Arg	Phe	acc Thr 40	Pro	Leu	Thr	329
The	Thr	Asp	Val	Ala	Ata	GLY 50	Leu	Trp	-31n	Pro	T71	ctt Leu	ser	Asp	Pro	377
aas Asn 60	as: Asn	cca Pro	cag Gln	gag Glu	grg Ala 65	Ash Gac	tgg Trp	agc Ser	qaa Gln	cag Gln 70	a-sc Thr	ttt Phe	qac Asp	tat Tyr	ctc Leu 75	425
ctg Leu	Ser	His	Val	His 80	Ser	Pro	Asn	Ala	Glu 85	Asn	Leu	993 Gly	Leu	Phe 90	Leu	473
Ile	Ser	Gly	Tyr 95	Asn	Lea	Phe	His	Glu 100	Ala	Ile	Pro	gad Asp	Pro 105	Ser	Trp	531
Lys	Asp	Thr	Val	Leu	Gly	Phe	Arg 115	Lys	Leu	Thr	Fro	aga Arg 120	Glu	Leu	Asp	569
atg Met	ttc Phe 125	cca	gat Asp	tac Tyr	gge Gly	tat Tyr 130	ggc	tgg Trp	ttc Phe	cac His	aca Thr 135	age Ser	cta Leu	att Ile	ctg Leu	617
gag Giu 140	gga	aag Lys	aac Asn	tat Tyr	cta Leu 145	cag Gln	tgg Trp	ctg Leu	act Thr	gaa Glu 150	agg Arg	tta Leu	act Thr	gag Glu	agg Arg 155	665
gga Gly	Val	Lys	Phe	Fhe 160	Gln	Arg	Lys	Val	Glu 165	Ser	Fhe	gag Glu	GIu	170	Ala	713
Arg	Glu	Gly	Ala 175	gac Asp	Val	He	Va1	Asn 180	Cys	Thr	Gly	gta Val	Trp 185	Ala	GIA	761
Ala	Leu	Gln 190	Arg	Asp	Pro	Leu	Leu 195	Gln	Fro	Gly	Arg	ggg Gly 200	Gln	Ile	Met	809
Lys	Val 205	Asp	Ala	Pro	Trp	Met 210	Lys	His	Phe	lle	Leu 215		His	Asp	Pro	857
gag Glu 200	Arg	ggc	atc	tac Tyr	aat Asn 225	Ser	ccg	tac Tyr	atc	atc 1le 230	Pro	ggg Gly	Thr	Gln	aca Thr 235	905
gt.t Val	act	Leu	Gly	Gly 240	Ile	Phe	Glr	Leu	Gly 345	Asn	Trp		Glu	250	Asn	953
Asr	116	Glr	Asp 255	His	Asn	Thr	116	260	Glu)	Gly	CAE	Cys	265	Leu	gag Glu	1001
Pro	Thr	Leu 270	Lys	Asr	ı Ala	Arg	11e	Il∈	Gly	Glu	Ala	280	Gly	r Ph∈	e egg e Arg	1049
eca Pro	yta Val	Arc	e eee	cag Glr	; att	. ogg Arg 290	Let	gaa Glu	a aga a Arg	gaa g Glu	0 0 ag 1 Glr 295	ı Let	. cgc	act Thr	gga Gly	1097
ect Pro	to: Ser	aaa	e aca	gag Gli	g gto i Val	ato	cac	aac Asi	tat i Tyi	ggc Gly 316	/ His	s Giy	ı ggo z Gly	tac Tyr	ggg Gly 315	1145
cto	acc	ato	c cac His	tgg Trp	व व्यव	ı tat	gco Ala	c cto	g gaq ı Glu	g gca	a geo	a Lys	g cto	e ttt u Phe	ggg Gly	1193

325 aga ate etg gaa gaa aag aaa ttg tee aga atg eea eea tee eas etc Arg Ile Leu Glu Glu Lys Lys Leu Ser Arg Met Pro Pro Ser His Leu 340 335 tgaagastee agtgaetget geeteseses acaagaante eetteteees teagecaatg automatqtq otoottomta aqcomttgot totoootomo ttotttooto mamagamagam guggtgagag aaagecacra agteagtgee tggagaaggg tteageceaa catggggeee eteteateae tgaaateeet etaeettete tgggtetgge attataaaga acagetgagg cigteattee atgagtette agaagaaagg acageteaga aagteaaaga ggeeaactge ocaqaqocac aqaaaatqqa qqataattqa ggotaagtaa gotgattaca agttgtacta acatattaaa ggttotgaaa agtootgoaa aa <210> 18 <211> 347 <212> PRT <213> Homo sapiens <400> 18 Met Arg Val Val Val Ile Gly Ala Gly Val 1le Gly Leu Ser Thr Ala 10 1 Leu Cys Ile His Glu Arg Tyr His Ser Val Leu Gln Pro Leu Asp Ile 2.0 25 Lys Val Tyr Ala Asp Arg Phe Thr Pro Leu Thr Thr Thr Asp Val Ala 35 40 Ala Gly Leu Trp Gln Pro Tyr Leu Ser Asp Pro Asn Asn Pro Gln Glu 55 60 Ala Asp Trp Ser Gln Gln Thr Phe Asp Tyr Leu Leu Ser His Val His 75 65 70 Ser Pro Asn Ala Glu Asn Leu Gly Leu Phe Leu Ile Ser Gly Tyr Asn 90 95 85 Leu Phe His Glu Ala Ile Pro Asp Pro Ser Trp Lys Asp Thr Val Leu 110 100 105 Gly Phe Arg Lys Leu Thr Pro Arg Glu Leu Asp Met Phe Pro Asp Tyr 120 125 115 Gly Tyr Gly Trp Phe His Thr Ser Leu Ile Leu Glu Gly Lys Asn Tyr 140 135 Leu Gln Trp Leu Thr Glu Arg Leu Thr Glu Arg Gly Val Lys Phe Phe 150 155 Gln Arg Lys Val Glu Ser Phe Glu Glu Val Ala Arg Glu Gly Ala Asp 165 170 Val Ile Val Asn Cys Thr Gly Val Trp Ala Gly Ala Leu Gln Arg Asp 185 190 Pro Leu Leu Gln Pro Gly Arg Gly Gln Ile Met Lys Val Asp Ala Pro 200 205 Trp Met Lys His Phe Ile Leu Thr His Asp Pro Glu Arg Gly Ile Tyr 215 220 Asn Ser Pro Tyr Ile Ile Pro Gly Thr Gln Thr Val Thr Leu Gly Gly 235 Ile Phe Gln Leu Gly Asn Trp Ser Glu Leu Asr. Asn Ile Gln Asp His 250 Asn Thr Ile Trp Glu Gly Cys Cys Arg Leu Glu Fro Thr Leu Lys Asn 260 265 Ala Arg Ile Ile Gly Glu Ala Thr Gly Phe Arg Pro Val Arg Pro Gln 235 275 280 lle Arg Leu Glu Arg Glu Gln Leu Arg Thr Gly Pro Ser Asn Thr Glu 290 295 300 Val Ile His Asn Tyr Gly His Gly Gly Tyr Gly Leu Thr Ile His Trp 310 315 305

1351

1481

1601 1633

Gly Cys Ala Leu Glu Ala Ala Lys Leu Phe Gly Arg Ile Leu Glu Glu

				325					3311		3.3
Lys	Lys	Leu	Ser	Arg	Met	Pro	Pro	Ser	His	Leu	
			340					345			

-1210> 19 0.011> 1200 <:212> DNA

<213> Homo sapiens <400> 19 48 atg gae aca gea egg att gea gtt gtc ygg gea ggt gtg gtg ggg otc Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu tee acg get gtg tgc ate tee aaa etg gtg cee oga tgc tee gtt ace Ser Thr Ala Val Cys Ile Ser Lys Leu Val Pro Arg Cys Ser Val Thr ate att tea gae aag tit act eea gat woe acc agt gat gig goa goo 144 ile Ile Ser Asp Lys Phe Thr Pro Asp Thr Thr Ser Asp Val Ala Ala 40 gga atg ett att eet eae act tat eea gat aca eee att eae acg eag 190 Gly Met Leu Ile Pro His Thr Tyr Pro Asp Thr Pro Ile His Thr Gln and cag tigg the aga gan acc tht and car one the goa att god ant 240 Lys Gln Trp Phe Arg Glu Thr Phe Asn His Leu Phe Ala Ile Ala Asn 65 7.0 tet gea gaa get gga gat get ggt gtt eat tig gia tea ggt tgg eag 288 Ser Ala Glu Ala Gly Asp Ala Gly Val His Leu Val Ser Gly Trp Gln 85 ata ttt dag agd act dog act gaa gaa gtg doa tto tgg got gad gtg 336 Ile Phe Gln Ser Thr Pro Thr Glu Glu Val Pro Phe Trp Ala Asp Val 100 105 384 git ctg gga tit cga aag atg act gag get gag etg aag aaa tie eee Val Leu Gly Phe Arg Lys Met Thr Glu Ala Glu Leu Lys Lys Phe Pro cag tat gtg ttt ggt cag get ttt aca ace etg aaa tgt gaa tge eet 432 Gln Tyr Val Phe Gly Gln Ala Phe Thr Thr Leu Lys Cys Glu Cys Pro 135 480 ged tad dtd deg teg teg gag aaa agg ata aag gga agt gga ggd teg Ala Tyr Leu Pro Trp Leu Glu Lys Arg Ile Lys Gly Ser Gly Gly Trp 145 150 155 528 aca etc act egg ega ata gas gas etg tgg gas ett est eeg tec tit Thr Leu Thr Arg Arg Ile Glu Asp Leu Trp Glu Leu His Pro Ser Phe 165 170 gac ate gtg gtc aac tgt toa ggc ott gga ago aga cag ott gca gga 576 Asp Ile Val Val Asn Cys Ser Gly Leu Gly Ser Arg Gln Leu Ala Gly 180 185 gae tea aag att tte eet gta agg gge caa gte ete caa gtt eag get 624 Asp Ser Lys Ile Phe Pro Val Arg Gly Gln Val Leu Gln Val Gln Ala 200 672 eed tog gtg gag cat tit atd ega gat ggg agt ggg etg ada tat att Pro Trp Val Glu His Phe Ile Arg Asp Gly Ser Gly Leu Thr Tyr Ile 210 215 tat eet ggt aca tee eat gta ace eta ggt gga act agg caa aaa ggg Tyr Pro Gly Thr Ser His Val Thr Leu Gly Gly Thr Arg Gln Lys Gly 235 gae tgg aat etg tee eeg gat gea gaa aat age aga gag att ett tee 768 Asp Trp Asn Leu Ser Pro Asp Ala Glu Asn Ser Arg Glu Ile Leu Ser

250 ega tgc tgt get etg gag eec tee etc ear gga gee tgs aac atc agg

Arg Cys Cys Ala Leu Glu Pro Ser Leu His Gly Ala Cys Asn Ile Arg 250 265 270	3
gag dag gig ggd tig agg doc tad agg doa ggd gig dga dig dag ad Glu Lys Val Gly Leu Arg Pro Tyr Arg Pro Gly Val Arg Leu Gln Th 280 225 280	
gag etc ott geg ega gat gga eag agg etg eet gta gto eac eac ta	t 912
Giù Leu Ala Arg Asp Gly Gln Arg Leu Pro Val Val His His Ty 290 295 300	
igge cat ggg agt ggg ggc atc toa gtg cac tgg ggc act get etg ga	
Gly His Gly Ser Gly Gly Ile Ser Val His Trp Gly Thr Ala Leu Glo 305 310 315 32	
que que aqq etq qtq aqe qaq tqt qte cat que ete aqq ace ces at	
Ala Ala Arg Leu Val Ser Glu Cys Val His Ala Leu Arg Thr Pro II 325 330 335	
cec aag tea aac etg tagatgacat aaaatgacag caaagagact gagagactg	t 1063
Pro Lys Ser Asn Leu 340	
-tgatcawago acagaacagg ticaaataac titticcactg catgaaagit taattag -titotitigit ticaacatta gaagiggigt aacatgiaag cigagcacgg tagcatg	
atagtoccag ctacttg	1200
<pre><310> 20 <211> 1023 <212> DNA <213> Homo sapiens</pre>	
<400 > 20	
atg gad ada gda egg att gda gtt gtc ggg gda ggt gtg gtg ggg ct	
Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Le	u
tee acg get gtg tgc atc toc aaa ctg gtg ccc cga tgc toc gtt ac	c 96
Ser Thr Ala Val Cys Ile Ser Lys Leu Val Pro Arg Cys Ser Val Th 20 25 30	
ate att tea gae aag ttt act eea gat ace ace agt gat gtg gea ge. Ile Ile Ser Asp Lys Phe Thr Pro Asp Thr Thr Ser Asp Val Ala Al.	
35 40 45	
gga atg ctt att cct cac act tat cca gat aca ccc att cac acg ca	
Gly Met Leu Ile Pro His Thr Tyr Pro Asp Thr Pro Ile His Thr Gl:	n.
aag cag tgg tte aga gaa ace ttt aat cae ete ttt gea att gee aa	t 240
Lys Gln Trp Phe Arg Glu Thr Phe Asn His Leu Phe Ala Ile Ala As	
65 70 75 80 tot goa gaa got gga gat got ggt gtt cat tig gta toa ggg ata aa	
Ser Ala Glu Ala Gly Asp Ala Gly Val His Leu Val Ser Gly Ile Ly. 85 90 95	
gga agtigga gge tgg aca etc act cgg cga ata gas gac etg tgg ga.	а 336
Gly Ser Gly Gly Trp Thr Leu Thr Arg Arg Ile Glu Asp Leu Trp Gl 100 105 110	
ett eat eeg tee tit gae ate gig gie aan tigt toa gige eit giga ag	
Leu His Pro Ser Phe Asp Ile Val Val Asn Cys Ser Gly Leu Gly Se 115 120 125	
aga dag ott goa gga gad toa aag att tto oot gta agg ggo daa gt	
Arg Gln Leu Ala Gly Asp Ser Lys Ile Phe Pro Val Arg Gly Gln Va 130 135 140	
ctc caa gtt cag gct ccc tgg gtg gag cat ttt atc cga gat ggc ag Leu Gln Val Gln Ala Pro Trp Val Glu His Phe Ile Arg Asp Gly Se	
145 159 155 16	
ggg ctg aca tat att tat ect ggt aca tee eat gta ace eta ggt gg.	
Gly Leu Thr Tyr Ile Tyr Pro Gly Thr Ser His Val Thr Leu Gly Gl	У

165 170 175	576
act agg caa aaa ggg gac tgg aat ctg too cog gat gca gaa aat agc Thr Arg Gln Lys Gly Asp Trp Asn Leu Ser Pro Asp Ala Glu Asn Ser	576
180 185 190	
aga gag att of: tee ega tgo tgt get etg gag een ten etc can gga	624
Arg Glu Ile Leu Ser Arg Cys Cys Ala Leu Glu Pro Ser Leu His Gly	
195 200 205	6110
ged tgd aad atd agg gag aag gtg ggd ttg agg dod tad agg dda ggd Ala Cys Asn Ile Arg Glu Lys Val Gly Leu Arg Pro Tyr Arg Pro Gly	672
210 215 220	
gtg ega etg dag ada gag etc ett geg ega gat gga dag agg etg est	720
Val Arg Leu Gln Thr Glu Leu Leu Ala Arg Asp Gly Gln Arg Leu Pro	
225 230 235 240	
gia gid eac cac tat gge cat ggg agt ggg ggc atc rea gig eac tigg. Val Val His His Tyr Gly His Gly Ser Gly Gly Ile Ser Val His Trp	768
245 250 255	
aggs act get etg gag gee gee agg etg gtg age gag tgt gte dat gee	816
Gly Thr Ala Leu Glu Ala Ala Arg Leu Val Ser Glu Cys Val His Ala	
260 265 270	
ete agg ace see att ees aag tea aac etg tagatgacat aaaatgacag	846
Leu Ang Thr Pro Ile Pro Lys Ser Asn Leu 275 280	
casagagact gagagactgt tgatcasagc acagaacagg ttcasataac ttttccactg	926
catgaaagtt taattagaca tttotttgtt ttcaacatta gaagtggtgt aacatgtaag	
otgagosogg tagoatgoot atagtoocag otacttg	1023
<210> 21 <211> 341	
<211> 341 <212> PRT	
<213> Homo sapiens	
<213> Homo sapiens	
<213> Homo sapiens <400> 21	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu</pre>	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu</pre>	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><113> Homo sapiens <400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><13> Homo sapiens <400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><13> Homo sapiens <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><13> Homo sapiens <400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><13> Homo sapiens <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><113> Homo sapiens</pre> <100> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1	
<pre><410> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><13> Homo sapiens</pre> <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1	
<pre><d13> Homo sapiens <d40> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</d40></d13></pre>	
<113> Homo sapiens <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1 1 5 Ser Thr Ala Val Cys Ile Ser Lys Leu Val Pro Arg Cys Ser Val Thr 20 25 16 Ile Ser Asp Lys Phe Thr Pro Asp Thr Thr Ser Asp Val Ala Ala 45 Gly Met Leu Ile Pro His Thr Tyr Pro Asp Thr Pro Ile His Thr Gln 50 Lys Gln Trp Phe Arg Glu Thr Phe Asn His Leu Phe Ala Ile Ala Asn 75 Ser Ala Glu Ala Gly Asp Ala Gly Val His Leu Phe Ala Ile Ala Asn 80 Ser Ala Glu Ala Gly Asp Ala Gly Val His Leu Phe Ala Ile Ala Asn 75 100 105 106 107 108 109 100 105 110 Val Leu Gly Phe Arg Lys Met Thr Glu Ala Glu Leu Lys Lys Phe Pro 115 115 Gln Tyr Val Phe Gly Gln Ala Phe Thr Thr Leu Lys Gly Gly Cys Pro 113 Ala Tyr Leu Pro Trp Leu Glu Lys Arg Ile Lys Gly Ser Gly Gly Trp 145 155 165 166 167 168 169 170 170 180 191 193 194 195 196 197 198 199 190 190 190 190 190 191 195 196 197 198 199 190 190 190 191 195 196 197 198 199 199 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190 190	
<pre><d13> Homo sapiens </d13></pre> <pre><400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><d13> Homo sapiens</d13></pre> <pre><d400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</d400></pre>	
<pre><d13> Homo sapiens</d13></pre> <d400> 21 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu 1</d400>	
<pre><d13> Homo sapiens </d13></pre> <pre><400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1</pre>	
<pre><d13> Homo sapiens</d13></pre> <400> 21 Met Asp Thr Ala Arg fle Ala Val Val Gly Ala Gly Val Val Gly Leu 1	

Tyr Pro Gly Thr Ser His Val Thr Leu Gly Gly Thr Arg Gln Lys Gly Asp Trp Asn Leu Ser Pro Asp Ala Glu Ast. Ser Arg Glu Ile Leu Ser Arg Cys Cys Ala Leu Glu Pro Ser Leu His Gly Ala Cys Asn Ile Arg Glu Lys Val Gly Leu Arg Pro Tyr Arg Pro Gly Val Arg Leu Gln Thr Glu Leu Leu Ala Arg Asp Gly Gln Arg Leu Pro Val Val His His Tyr Gly His Gly Ser Gly Gly Ile Ser Val His Trp Gly Thr Ala Leu Glu 3.05 Ala Ala Arg Leu Val Ser Glu Cys Val His Ala Leu Arg Thr Pro Ile Pro Lys Ser Asn Leu <210> 22 <211> 282 <212 > PRT <.113 - Homo sapiens <400 > 22 Met Asp Thr Ala Arg Ile Ala Val Val Gly Ala Gly Val Val Gly Leu Ser Thr Ala Val Cys Ile Ser Lys Leu Val Pro Arg Cys Ser Val Thr Ile Ile Ser Asp Lys Phe Thr Pro Asp Thr Thr Ser Asp Val Ala Ala Gly Met Leu Ile Pro His Thr Tyr Pro Asp Thr Pro Ile His Thr Gln Lys Gln Trp Phe Arg Glu Thr Phe Asn His Leu Phe Ala Ile Ala Asn Ser Ala Glu Ala Gly Asp Ala Gly Val His Leu Val Ser Gly Ile Lys Gly Ser Gly Gly Trp Thr Leu Thr Arg Arg Ile Glu Asp Leu Trp Glu Leu His Pro Ser Phe Asp Ile Val Val Asn Cys Ser Gly Leu Gly Ser Arg Gln Leu Ala Gly Asp Ser Lys Ile Phe Pro Val Arg Gly Gln Val Leu Gln Val Gln Ala Pro Trp Val Glu His Phe Ile Arg Asp Gly Ser Gly Leu Thr Tyr Ile Tyr Pro Gly Thr Ser His Val Thr Leu Gly Gly Thr Arg Gln Lys Gly Asp Trp Asn Leu Ser Pro Asp Ala Glu Asn Ser Arg Glu Ile Leu Ser Arg Cys Cys Ala Leu Glu Pro Ser Leu His Gly Ala Cys Asn Ile Arg Glu Lys Val Gly Leu Arg Pro Tyr Arg Pro Gly Val Arg Leu Gln Thr Glu Leu Leu Ala Arg Asp Gly Gln Arg Leu Pro Val Val His His Tyr Gly His Gly Ser Gly Gly Ile Ser Val His Trp Gly Thr Ala Leu Glu Ala Ala Arg Leu Val Ser Glu Cys Val His Ala

Leu Arg Thr Pro Ile Pro Lys Ser Asn Leu

<212> DNA

<0.00>

< 320 >

<213> Artificial Sequence

<223> oligonucleotide 24-1461-256

```
<210> 23
<1.11> 47
«DID » DNA
<.:13 - Artificial Sequence
<.200 s
<.23> cligonucleotide 24-1443-126
<2221> allele
<2225 24
<2235 polymorphic base C or T
<4005 13
targgettag taagttggag kacyaggate agaagacagg tetgeet
<210> 04
<.111> 47
<1111:> DNA
<213> Artificial Sequence
<120>
<223> oligonucleotide 24-1457-52
<220>
<2221> allele
<2222> 24
<223> polymorphic base C or A
<400> 24
tetgagatge ceetgtgtee tetmagggag tagtggetga geattte
<210> 25
<211> 47
<212 > DNA
<213> Artificial Sequence
<220 >
<223 > oligonucleotide 27-93-181
<220>
<001> allele
<2225 24
<223> polymorphic base C or T
<400> 25
ebbagetetg ceaetggega getytgtgge ettgggeaag ttactee
<210> 36
<211> 47
```

47

47

47

>>221> allele
<222> 24
<2.3> polymorphic base A or G

 ${\approx}400{>}\ 26$ gatggetetg geattiteag ggarcagtea tgtetgatet eaagtte 1